Mac FORMAT ISSUE 239 October 2011

> Slim down your Mac > Take your first steps with Lion > Can Apple survive without Steve Jobs? > Group test: Six media streamers go head to head Printed in the UK

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GROUP TEST

Media streamers

Which one is top of the pile?

Back to School

MacBook Air

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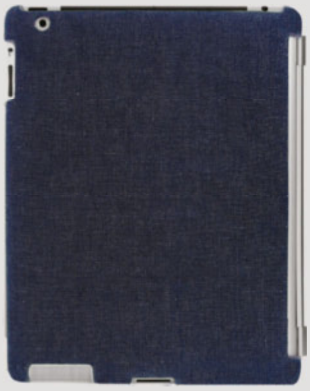

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On 24 August this year, Steve Jobs resigned as CEO of Apple. He's a surviver of pancreatic cancer, has had a liver transplant and has been on a medical leave of absence since January, so the news shouldn't have come as a shock, but it still felt like one. Even while being off work Jobs had still been treading the boards at all of Apple's keynote presentations this year, most noticeably at the iPad 2 launch, creating the impression that he was still running things at the Cupertino headquarters.

Steve Jobs is so integral to the story of Apple that it's almost impossible to separate the man from the company, but we must. In reality, his successor Tim Cook has been running the company very successfully during all of Steve's medical absences, and there's no logical reason to think that an Apple without Steve will be a company on the wane. Steve Jobs has created a powerful legacy in Apple, and the company is infused with his values and committed to making products that are clever, elegant and beautifully designed. Most importantly, these are the very same products that other companies can't seem to match.

I'd like to dedicate this issue of *MacFormat* to the man who made it all possible: Steve Jobs. Find out more about his story on page 72.

Graham Barlow, Editor
graham.barlow@futurenet.com
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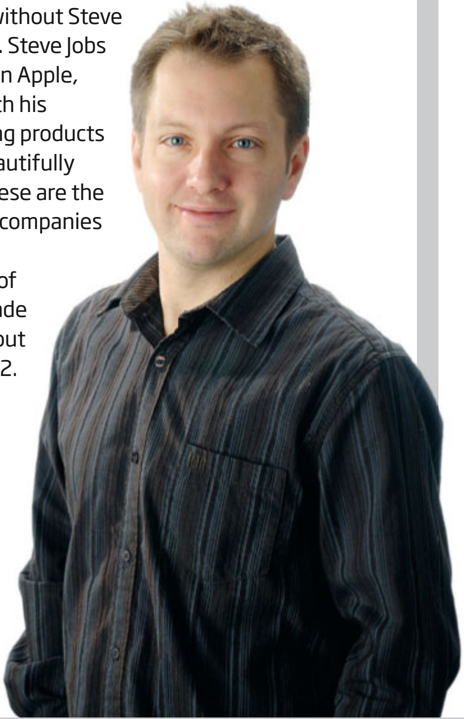

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Deputy Editor

"What's most surprising is how successful - and influential - Steve and Apple have become by daring to be different." **We take a look back at the history of Steve Jobs and Apple p72**

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Reviews Editor

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Laurence Cable
Staff Writer

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Production Editor

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Alex Thomas
Art Editor

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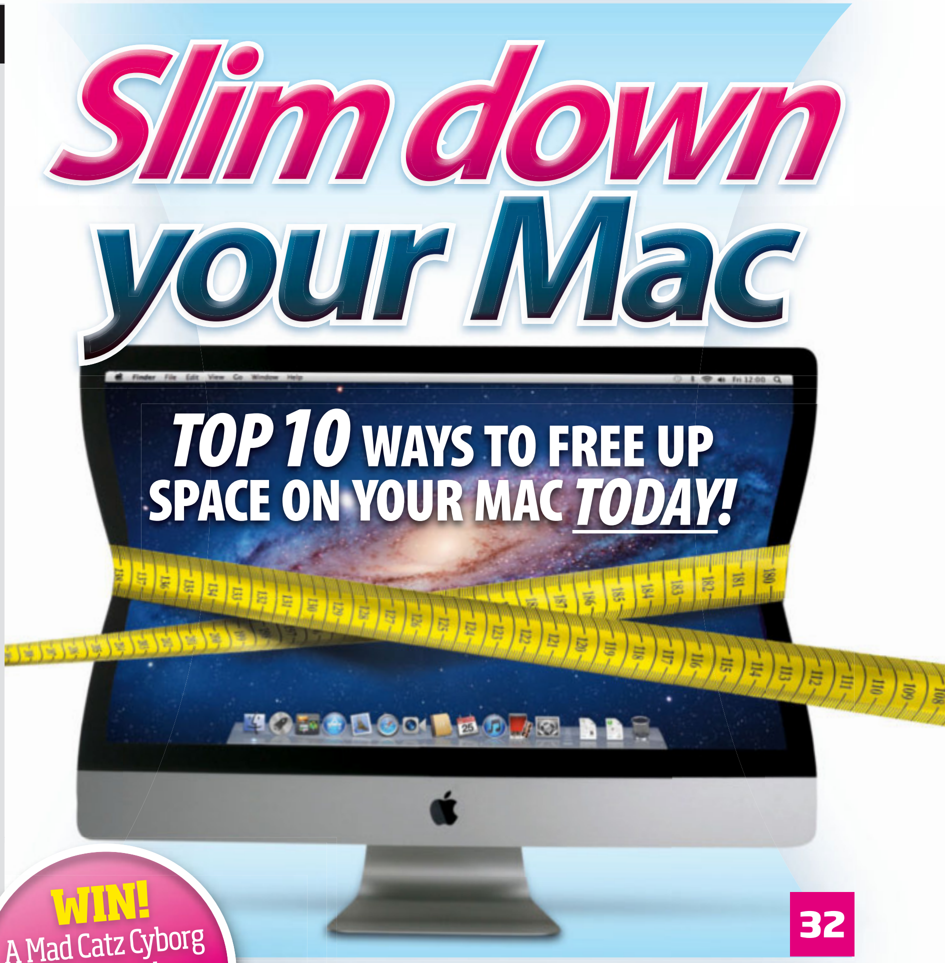

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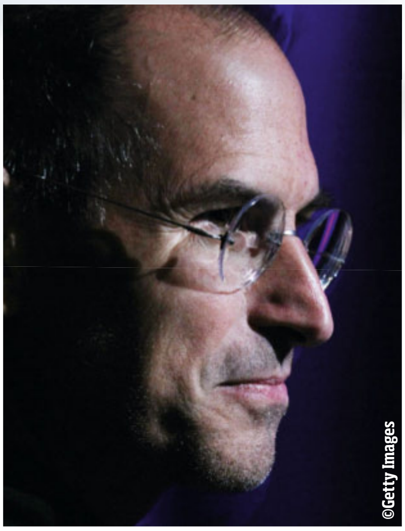

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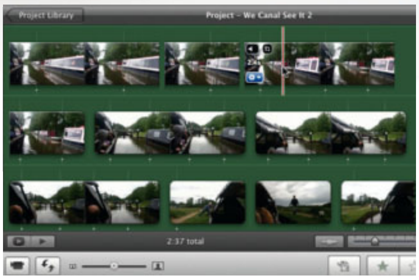

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STOP PRESS!
Steve Jobs resigns as Apple CEO
p72

Start up

>NEWS & OPINION >INTERVIEWS >GADGETS >LETTERS

Apple vs Google war intensifies

Apple on a victory roll against companies producing iPad clones

Apple's iPad (above) versus Samsung's Galaxy Tab (right)...

Apple is winning a string of victories against third-party companies manufacturing iPad-alikes running on Google's Android OS. The company is involved in multiple litigations worldwide as it resorts to the courts to fight back the Android menace. It has outstanding actions against Samsung, Motorola and HTC in multiple countries, claiming copying of the look and feel of the iPad.

Apple is in with a chance. It has already been granted a preliminary injunction (which has now been suspended) against Samsung's Android-based Galaxy Tab 10.1, barring distribution of the product across most of the European Union (bar the Netherlands and Germany). Apple's complaint involves the design of the device.

Apple, which uses Samsung as a major component supplier, is involved in litigation against the company, along with HTC, Motorola and others, worldwide. This has driven Google to criticise its former ally: "They are not responding with innovation, they're responding with lawsuits," said Google's Eric Schmidt recently. Critics point out that Google is itself being sued by Oracle and others for patents claimed to be abused within Android. These lawsuits have also seen some Android licencees forced to pay royalties to others for technologies built into Android. HTC must pay Microsoft $5 for each Android phone it makes, for example.

Apple COO, Tim Cook has said, "We love competition. We think it's great for us and for everyone. But we want people to invent their own stuff and we're going to make sure we defend our portfolio perfectly."

Gleacher & Co analyst, Brian Marshall, told Reuters that Apple is seeing success in this new battle, but that "Apple doesn't really care too much about the actual OEMs." Apple has a problem with Android.

Steve Jobs told Apple employees last year: "There's people at Google who want to kill the iPhone. We won't let them." Apple is fighting on all fronts to take on its former ally Android's smartphone menace. Google is responding.

>>MORE NEWS
For even more on the Mac, iPod and iPhone, visit
www.macformat.co.uk

APPLE IN PICTURES / Paperless flight desk

iPADS TAKE TO THE SKIES

United Airlines has announced that it is moving to a paperless flight deck by the end of the year and deploying 11,000 iPads to United and Continental pilots.

Most recently, Google and Motorola Mobility entered into a $12.5 billion agreement under which the search giant will acquire the hardware maker. The move is likely to send shockwaves across the Android ecosystem, as other manufacturers fret that Motorola will get preferential treatment. Andy Rubin, Senior Vice President of Mobile at Google, said, "Our vision for Android is unchanged and Google remains firmly committed to Android as an open platform and a vibrant open source community. We will continue to work with all of our valued Android partners to develop and distribute innovative Android-powered devices."

Florian Meuller at FOSS Patents points out that both Apple and Microsoft have ongoing patent lawsuits against Motorola, and if the latter loses those then Google could end up with a $12.5 billion company that isn't allowed to sell devices in the US. Google also recently purchased a pile of patents from IBM.

Claims are the takeover has little to do with Motorola's devices and everything to do with Motorola's 17,000 mobile technology patents. However, it is also clear that ownership of hardware maker, Motorola, will enable Google to emulate Apple's hardware/software strategy. This will put the company into indirect competition with its own licencees, and is unlikely to endear the firm to its partners.

It isn't just Google. At a cost of $4.5 billion, Apple along with other firms, including Oracle and Microsoft, recently took control of patents from Novell and Nortel. On this smaller deal, Google's Chief Legal Officer, David Drummond, said, "Our competitors are waging a patent war on Android and working together to keep us from getting patents that would help balance the scales." Google claims over 550,000 Android devices are activated each day. Apple's battles are designed to slow this growth. Should Apple win an injunction against a particular feature it could require Google to remove such a feature from the Android OS. Apple's main concern is that Google will repeat its marketshare grab in the iPhone sector in the burgeoning tablet area dominated by the iPad. This market's expected to grow from under 20 million tablets in 2010 to over 230 million in 2015. ●

APPLE IN NUMBERS

4

Apple are the fourth biggest computer company

> *"…It says it'll power my Mac and then stops working the minute I wave a DVD in its direction."*

Rob Mead-Green shares a sorry tale of battery woe.

Apple talk

Who's saying what?

Steve Jobs

www.apple.com

"I've done a lot of things I'm not proud of, such as getting my girlfriend pregnant when I was 23 and the way I handled that. But I don't have any skeletons in my closet that can't be allowed out."

Official Steve Jobs bio is completely honest and ships in November.

Tim Cook

www.apple.com

"Apple's primary criterion for launching a lower-end iPhone is an innovative, category-killer experience."

Apple execs won't do anything unless it's great, Cook tells Mike Abramsky.

Schumpeter

www.economist.com

"Apple's rise is a testament to the growing influence of the digital world."

Apple's new (virtual) world order.

Tim Conneally

www.betanews.com

"People realise oil is more important than iPhones."

Is Apple really more precious than Exxon?

Shaw Wu

www.sterneagee.com

"Apple has opportunity to double or potentially even triple its market share…"

Analyst sees an even bigger future for Apple.

>> IN THE SPOTLIGHT

More power to the Mac

Rob Mead-Green

Right now on my desk are three batteries for my MacBook Pro. One of them takes four days to charge and then powers up my Mac for 10 minutes before it dies. The second one takes two days to charge and lasts about 30 minutes. And the third has an attitude problem. It says it'll power my Mac for hours (well, three) and then stops working the minute I wave a DVD in its general direction. Batteries, I hate 'em.

You can probably guess that I'm one of the people who welcomed the news Apple was scrapping user-replaceable batteries in the original MacBook Air in favour of a long lasting, non-replaceable alternative. And I'm glad this is now spreading to other Apple notebooks as well.

The reason? It's forcing Apple to be a lot more canny about the way its Mac laptops – and iOS devices too – consume power when you're on the move. CCFL-backlit LCDs have been replaced by lower power LEDs, hard disks are making way for solid-state drives. And, of course, Apple is slowly killing off the optical drive – another power-draining pain that we can all do without.

> *"I welcomed the news Apple was scrapping user-replaceable batteries in the original MacBook Air"*

But it looks like Apple is taking its energy-efficiency further still. In recent weeks, three patent applications linked to Apple have appeared that show the company researching different ways of making batteries, juicing batteries using contact-less charging and even incorporating solar panels into a laptop's display and/or body.

The latest MacBook Air can 'sleep' for up to 30 days without needing to be connected to power – if any of the patent applications become reality we might not have to plug Mac to the mains at all.

But it's Apple's proposed changes to battery technology that are getting me excited. One patent application shows Apple is working on ways to make batteries any shape and size – enabling them to fit in spaces that a solid-block, removable battery will not go. That means I'll no longer have to fill my bag with batteries when I'm out with my Mac. And it will clear much-needed desk space too.

Rob Mead-Green is inventing uses for his cast-off batteries: he has thus far made a fancy brooch and some mouse hurdles.

A peek at what Apple's new high-tech headquarters will look like.

>> APPLE'S ACRES

New data on Apple's HQ plans

Details revealed of new Cupertino campus

News from Cupertino reveals intriguing details concerning Apple's future spaceship-like campus, including images and further details of what's inside.

Apple's plans for a new four-storey campus first emerged in June, when Apple CEO Steve Jobs took a break from the antics at WWDC to visit Cupertino's city council to tell them about the plans. Jobs promised a complex that would become a beacon to good architecture worldwide, using "some of the best architects in the world."

It is a huge complex. Surrounded by apricot trees and situated in 175-acres of land, the plans describe a place large enough to hold 13,000 workers. Features will include a 2.8-million square foot office, research and development building; a 1,000-seat auditorium area; a fitness centre; a 3,000-seat cafe and underground parking.

When it comes to design, Apple aims to create a "distinctive and inspiring 21st century workplace". The consumer electronics company wants to "exceed economic, social and environmental sustainability goals through integrated design and development". For example, Apple will generate energy using natural gas and other cleaner sources.

The most recent plans (available via the Cupertino.org website) let you take a look at the existing buildings on the site, the planned alterations, the eventual site plan, and more.

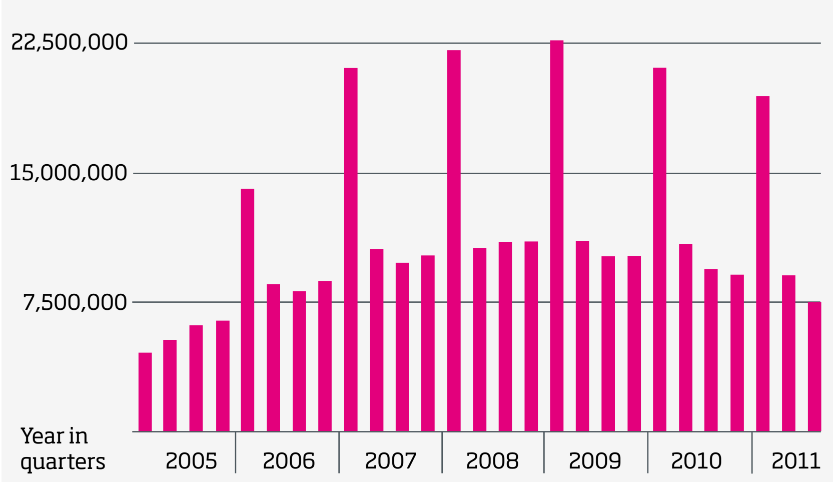
The plans have been released to satisfy local planning regulations, which demand a thorough review of the environmental and other impacts of the plans and an extensive public consultation. Apple isn't expecting too much opposition: as well as being the biggest local employer, Cupertino's mayor, Gilbert Wong, said there is "no chance" the council won't approve the structure, but the company will still have to obtain over a dozen permits and approvals before it begins to build its new home. The new campus is expected to be completed in 2015.

>> APPLE IN NUMBERS

5.2%

Apple's estimated slice of the global PC market in 2015

APPLE IN NUMBERS / The nano effect



The iPod nano has arguably been Apple's most successful product transition. Introduced just in time for 2005's Christmas season and updated annually since, the impact of the device on sales is best illustrated by the seasonal sales spikes as seen in the graph above. It will be interesting to witness what effect this year's product introductions will have.

SHOPPING FOR QUARK

Quark goes Platinum

Company acquires established DTP publisher

E-based investment house Platinum Equity has acquired desktop publishing pioneer, Quark, in an undisclosed transaction that guarantees the *XPress* publisher new funding in its campaign to take on Adobe.

"We believe that with their expertise and innovative software, Quark has the potential to revolutionise publishing again," said Brian Wall, partner at Platinum who led the acquisition team.

It is likely management is looking to the latest new devices, including media tablets, as part of its future-focused solutions package. For example, Quark introduced a new *App Studio* publishing tool for digital media on tablets and other devices, aimed specifically at Apple's iOS products.

Platinum is working with Quark's management team to, "create an acquisition strategy focused on expanding the breadth and depth of Quark's product capabilities and geographic coverage," the company said in a press statement.

According to Wikipedia, "After an acquisition, Platinum Equity often invests in additional businesses, equipment, people and facilities to give it a stronger position for the long haul."

This suggests non-Flash-encumbered publishing solutions firm Quark will engage in future strategic acquisitions as it seeks to grow its business in the rapidly expanding post-PC markets. Quark remains an independent software company based in Denver. ●

APPLE IN NUMBERS

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Fake Apple stores closed by Chinese authorities in Kunming

HOT OR NOT?

The latest word from the Apple rumour mill

HOT: A6 processor trials begin
We hear that Apple has hired TSMC to manufacture trial quantities of the next-gen A6 processor, set to hit iOS devices in 2012.

HOT: Mini-video projectors?
Apple has filed patents for pico projectors inside iPhones. The company was rumoured to be looking at these two years ago, so we think this may appear…

NOT: iPhone 5 for 2012
We're becoming sick and tired of these waves of iPhone release date rumours. The latest claims say new models won't ship until next year, which doesn't feel right.

NOT: Apple spreads rumours
Some believe Apple spreads hints about what it's going to ship next using a dark network of little-known foreign Mac websites, but we've seen no proof.

Apple on TV

The Mac is ready for its close-up

Thanks to reader Peter Mackinlay for this off-the-wall (hedge?) *Grand Designs* clip, which could appeal to members of Horticulture SIGs and Apple Command key collectors…

Seen a Mac on TV? Email macformat@futurenet.com and tell us, just put 'telly' in the subject line.

>> ACROSS THE POND

Notes from the jungle

Susie Ochs

Remember those scenes in Disney's animated film *The Lion King* when Mufasa, and later the oddly English-accented hornbill, Zazu, teach Simba how to be a king? That memory came flooding back to me as I got to know Lion, the new Mac OS, and realised that it was making me a better Mac user, improving my habits.

For example, the Resume feature: as Software Updates come in (and in the first days of a new operating system, they come thick and fast), I no longer put them off until I'm not busy. I update right away, knowing that Lion will bring back all my applications and windows just like I had them. No more procrastinating until I have a dozen or so updates to install.

Even better, FileVault 2 works much more smoothly than the original FileVault, staying in the background and keeping my data secure without slowing down the rest of my system. Between that, and disabling auto-login, I can rest a little easier that if my MacBook Pro is ever lost or stolen, throughout the ordeal all my data will stay under lock and key.

"Now I'm swiping between desktops with three fingers on the trackpad, working full-screen whenever I can"

But while my computer's still safe and sound, I'm also working smarter thanks to Lion's full-screen apps, and the easy-to-master Mission Control, bringing together Spaces, *Dashboard* and Exposé. Before Lion, I always had a mouse in my laptop bag, and my MacBook Pro's 15-inch screen was often a jumble of a dozen or so windows which I would carefully resize and (attempt to) tile around the screen, a fiddly process to say the least. But now I'm swiping between desktops with three fingers on the trackpad, working full-screen whenever I can to avoid distractions, and my mouse is just sitting there… Lion food.

Quick Look inside of Spotlight is another highlight, allowing me to stop worrying about organisation while still finding everything I need, easily. Although Lion took a few days to get used to, it's given me some new computing claws and helped me work smarter than ever. ●

Susie Ochs, Senior Editor of *Mac|Life*, just discovered the true story of 60s London's resident lion, Christian: http://bit.ly/8PGTfu.

>> GAMES GIANT SHRINKS

Nintendo feels iPressure

Japanese company sees profits falling

Nintendo, home of *Super Mario*, *Pokemon*, *Donkey Kong* and Wii, is under pressure to transform its existing business strategy and begin developing titles for other platforms, principally iPhones.

A Bloomberg report explains that investors in the gaming company are alarmed at its declining profitability and the failure of the much-anticipated Nintendo 3DS launch. The company lost $328 million in its most recent quarter.

Nintendo doesn't offer its games on other platforms, preferring instead to make titles for its own devices only. According to the report, investors are especially concerned at Nintendo's lack of position in the burgeoning smartphone market.

"Smartphones are the new battlefield for the gaming industry," said Stats Investment fund manager, Masamitsu Ohki. "Nintendo should try to either buy its way into this platform or develop something totally new."

At time of writing the games giant says it "has no intention or plans of publishing its IP on non-Nintendo platforms."

The company has seen this coming. In May 2010, Nintendo's president, Satoru Iwata, warned company executives that Apple is its "enemy of the future." Major developers who aren't in the hardware business, including Electronic Arts and id Software, already offer a wide selection of titles to Apple users. Nintendo's Iwata says mobile platforms aren't interested in maintaining "the value of gaming". ●

Stockwatch

A look at the world of Apple business with Clem Chambers

Considering how the roof is collapsing on the market in general, shorting Apple now would be a brave and potentially highly profitable trade.

The trick to trading overpriced stocks on the short side is to let them fall, waiting until the old bull trend is broken. Then sit back and let them halve. But this isn't where Apple is.

Apple still has huge product and business momentum and an army of zealots. This configuration can crush a 'contrarian' under foot, even if that fellow is dead right in the long run. The model is the market is always right, while you aren't. Thus, when you want to disagree with a stock price like Apple's, going short will likely see you stomped. However, Apple *is* well down from its post-results high, in this crash… Can their stock price remain bullish during the current market? Unlikely. Yet if the market bounces, Apple seems likely to head up along with the general sentiment.

Clem Chambers is CEO of ADVFN, Europe's leading stocks and shares website.

>> APPLE AT WAR

Apple loses iPhone 4 case

Gizmodo off the hook for iPhone 4 scoop

Apple's pursuit of bloggers who revealed the details of the iPhone 4 last year has failed, with the San Mateo County district attorney's office deciding not to act against employees of Gizmodo or its parent company, Gawker Media.

"After a consideration of the evidence, it was determined that no charges would be filed against employees of Gizmodo," the district attorney's office said.

Gizmodo last year published images and information concerning an iPhone 4 prototype. Gizmodo purchased the prototype for $5,000 from Brian Hogan after the device was accidentally left in a bar by Apple engineer, Gray Powell. When found, the prototype was disguised as an iPhone 3GS. Apple attempted to convince the site to return the device, but it was photographed and disassembled by blogger, Jason Chan.

"The difficulty we faced is that Mr. Chen and Gizmodo were in their view, engaged in a journalistic endeavour to conduct an investigation into the phone and type of phone it was, and they were protected by the shield law," San Mateo County Assistant District Attorney Morley Pitt told the Associated Press.

The authorities are pursuing Brian Hogan, 22, and Sage Wallower, 28, who were charged with misappropriation of lost property and possession of stolen property. ●

>> APPLE DEMANDS

Intel bows to Apple

CPU manufacturer given orders to keep it light

Apple has put pressure on processor supplier, Intel, demanding the world's biggest chip manufacturer produce CPUs that didn't need too much power for use within the MacBook Air.

Apple took this need so seriously that the company threatened to sever its relationship with Intel if the problem wasn't addressed, according to Greg Welch, director of Intel's Ultrabook group, speaking with *The Wall Street Journal*.

He described the demand as a "real wake-up call" for Intel, which drove it to develop its new Ultrabook specification.

The new Intel spec is an attempt to help drive PC manufacturers into developing lightweight computers that challenge the MacBook Air. Intel Capital will invest $300 million in a new "Ultrabook fund" to invest in new technologies.

>> APPLE IN NUMBERS

14.1%

Apple's share of smartphone sales to end users in 2011

Apple meanwhile is widely expected to introduce new professional configurations of its lightweight mobile Mac, applying its advances in mobile technology and its new iCloud offering to deliver powerful new solutions.

Intel's mobile processor, Atom, was rejected for use within Apple products because it too demanded power at a rate of consumption engineers in Cupertino felt was too high. There have been recent claims the company may even intend introducing MacBook Air models built to run on the non-Intel A-series chips, which power the company's mobile devices. ●

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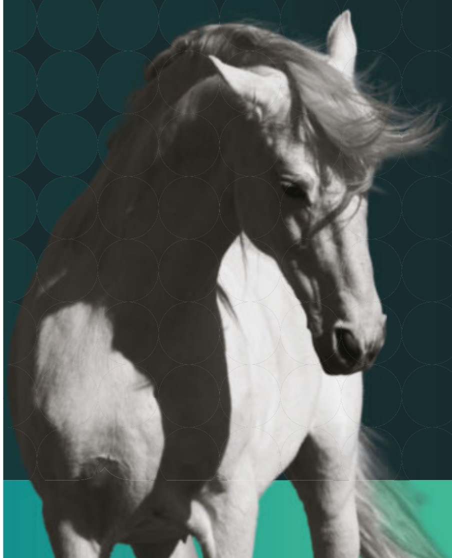

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We have 10 top wireless gaming mice to give away

Are you serious about gaming? Then you need a serious gaming mouse. Mad Catz' Cyborg R.A.T. range is the best on the Mac, and the wireless R.A.T. 9 is its top-of-the-range model.

R.A.T. 9 is amazing. If it doesn't fit your hand out of the box, you can use the bundled tools and replacement parts to stretch or shorten its body, reposition its side sections and add or remove weights until it feels perfectly comfortable. You can assign four sensitivity settings from 100 to 5600dpi, and switch between them on the fly.

A handy Precision Aim button boosts the sensitivity for fine-tuning your aim, and dedicated driver software lets you reprogram the buttons to suit the game you're playing. You can even download ready-made profiles tailored to individual titles.

The R.A.T. 9 wireless gaming mouse costs around £100 in the shops, but we've got 10 to give away. If you want to be in with a chance to wrap your hand round one of these incredible controllers, then read on:

The question

To stand a chance of winning one of these superb prizes, just answer this question:

What type of animal is a rat?

A) A reptile
B) A mammal
C) A fish

For more information on Mad Catz' Cyborg gaming products, including the R.A.T. series of gaming mice, go to **www.madcatz.com** or **www.cyborggaming.com**.

» HOW TO ENTER

- To enter, text RAT, followed by a space then your answer (A, B or C), space, then your name and address to 87474; or enter via our website at **www.macformat.co.uk** and click on the **Competition** link.
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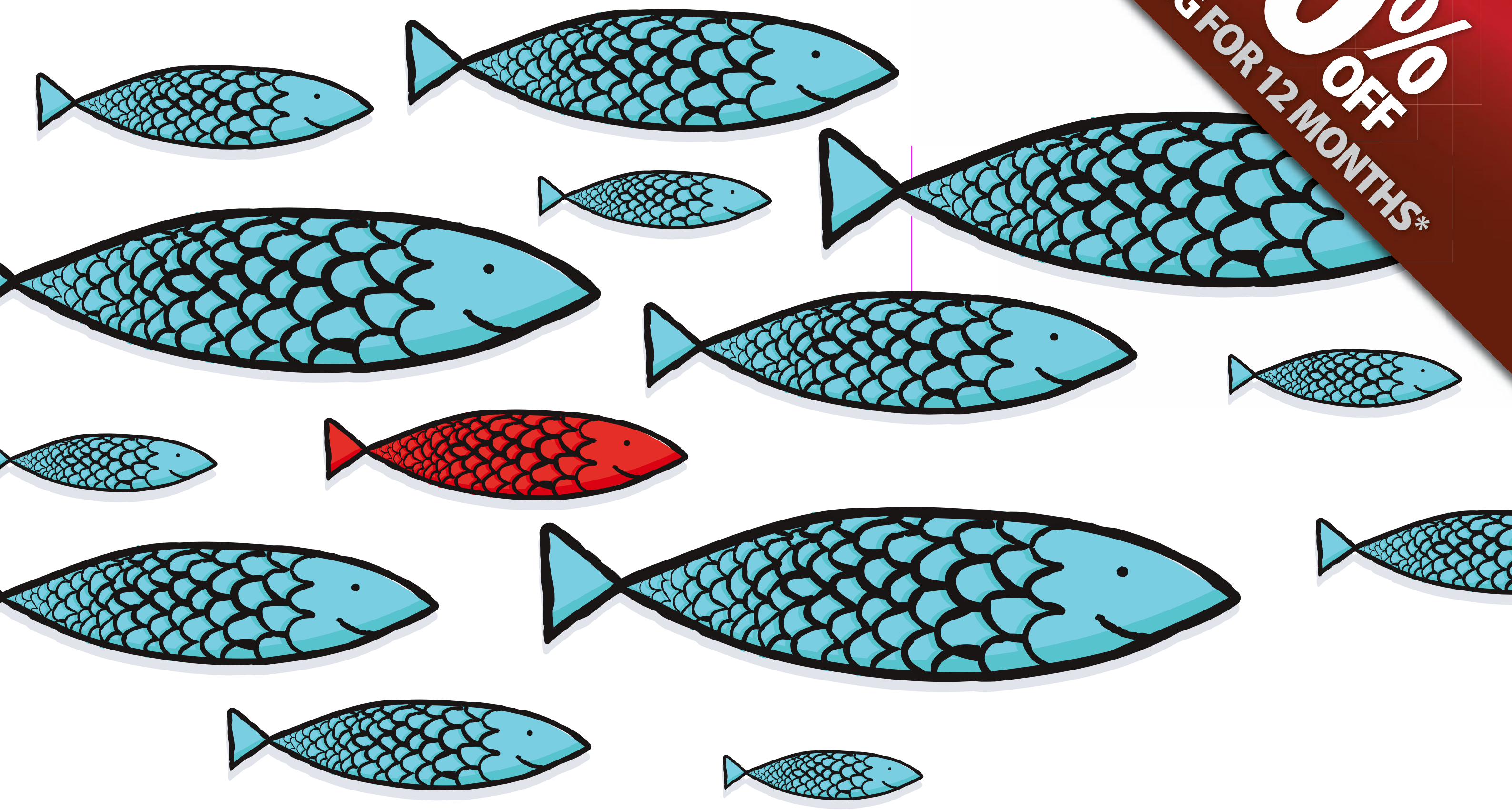

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Me&MyMac

MacFormat readers share their beloved Mac setups

>>CONTACT US

Want to share your Mac setup with us? Send a photo of your kit to **rob.mead-green@futurenet.com**

iMac 24-inch

Gary needs a fast Mac for his photography business. This is a 2.8GHz Intel Core Duo with maximum RAM.

Epson Stylus Photo P50

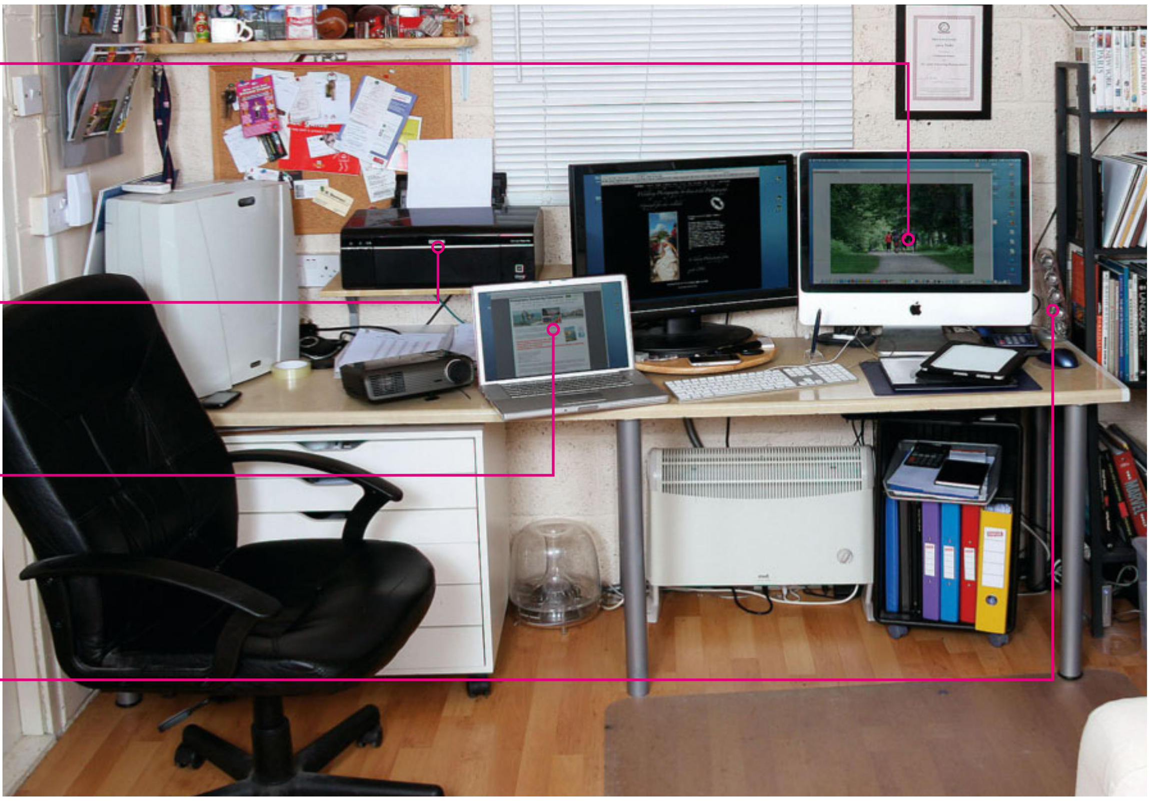
Every photographer needs a photo printer – and this is one of the very best.

MacBook Pro

Gary uses his 15-inch MBP to demo *Photoshop* to his students. It has a 2.33GHz Intel Core 2 Duo processor.

H/K Soundsticks

These Apple-designed speakers are rightly seen as a classic. And they sound pretty good too.



>>PROFILE

Name: Gary Fooks

Occupation: Professional photographer

Been using a Mac for: 16 years

Favourite hardware: Wacom graphics tablet

Favourite software: Apple iLife, Adobe Photoshop CS5, Adobe Photoshop Elements 9, Adobe Bridge

Gary Fooks' home office may not look like the centre of a mini-business empire, but when you find out his job takes him to Goodwood, Jersey, Venice and Las Vegas, you start to see it in a slightly different light. That's because Gary, with his wife and business partner, Helen, both run a successful pro photography business. It takes in both regular wedding photography and an exciting range of photo courses, which include guided tours both at home and abroad.

As you can tell from the setup in Gary's office, Apple looms large in both his personal and professional life. Gary's first Mac was a Performa he bought in 1995 after a recommendation from his brother. "I've never looked back," he says. "It was one of the best business decisions I ever made." Today Gary uses both a 24-inch iMac and a 15-inch MacBook Pro – the first for cataloguing and editing photos; the second for demonstrating *Photoshop* techniques to his eager and increasingly Mac-savvy students, who booked a place one of Gary's range of photography courses: "Macs are now used by about 40% of course participants, a massive increase compared to two or three years ago."

> *"I've fallen in love with the iPad. It's a great personal and business tool. I use it to demo wedding albums"*

Aside from using *Adobe Photoshop CS5* and *Photoshop Elements 9*, Gary also makes good use of *iLife*: *iPhoto* for managing photos, *iDVD* for creating DVD brochures that he can give to clients and *iWeb* for building and maintaining his websites at www.fotocourses.co.uk and www.forestsidephoto.co.uk.

One of the most surprising aspects of Gary's business is on the wedding photography side. It not only offers printed wedding albums created using *GraphiStudio* – a professional alternative to *iPhoto*'s own built-in books feature – but also sells iPad photo albums from £450 a pop. Explain Gary, please.

"I've fallen in love with the iPad. I think it's a great business and personal tool… I use mine on the courses to show pictures, to demonstrate wedding albums to couples," he says. Gary also uses the iPad to read books, magazines and feed his passion for American comics using the Marvel Comics app. ●

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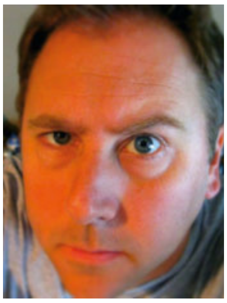
Interview: Alex Thomas

I use my Mac for comic strips

Comic strip artist and letterer Chris Eliopoulos talks about his love of all things Apple

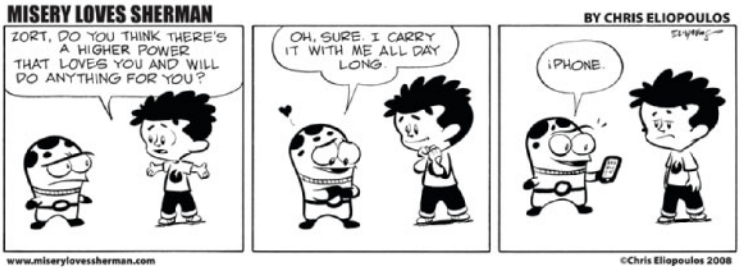


>>PROFILE

Name: Chris Eliopoulos
Location: New Jersey, USA
Occupation: Cartoonist and freelance comic book letterer
System(s): 3.4GHz Intel Core i7 8GB 27-inch iMac
Web:
www.desperatetimes.com.
www.miserylovessherman.com

MacFormat: When did you start using a Mac for drawing and lettering comics, and why use a Mac, not a PC?
Chris Eliopoulos: Back in 1991, I was on-staff at Marvel comics and they had one or two Apple computers for the bullpen. I was told that Macs were the computer of choice for design and publishing. So, when I decided I needed one, I bought a Centris 650 and never looked back.

MF: What Macs do you have and what programs and hardware do you use for work?
CE: I recently picked up a 27-inch iMac with a 3.4GHz Intel Core i7, 8GB 1333MHz DDR3. It has Thunderbolt and my love. For work, I use *Manga Studio* with a Wacom Cintiq 21UX for the drawing, and for the lettering and compositing of books I use *Creative Suite*. Thanks to the Cintiq and *Manga Studios*, I have not used my drawing board in almost a year.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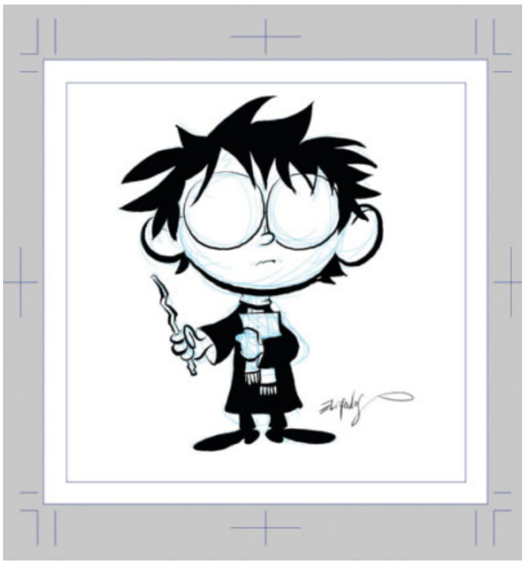
Chris' fantastic online comic strip, 'Misery Loves Sherman', reveals his passion for all things Apple.

MF: Do you have any other Apple products and have you ever used them for drawing with?
CE: We are an Apple home. I have my iMac, and an old G5 with a new hard drive in it as backup, as well as a Time Capsule. We have three Apple laptops, two iPads, one iPad 2, an iPod touch, an iPhone, Apple TV and a few iPods as well. I use the keyboard stand for my iPad 2 and actually do all my scripting on there. I've played around with the drawing apps, but so far none have given me what I wanted for professional output.

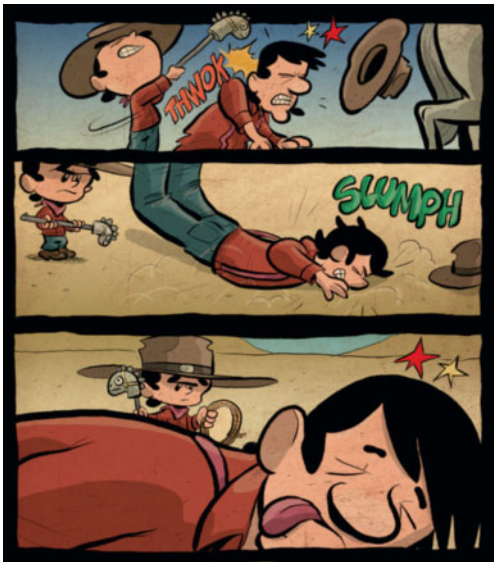
MF: How do you think iPad comic apps are affecting the comics industry?
CE: For me the iPad may be THE new digital distribution method. Comics look great on them and I think they will become the new standard. I think, eventually, all monthly comics and even some graphic novels will be offered as digital-only. When prices are lowered I think we may see a new boon in comics reading. We may even see the end of monthly comics.

MF: You're publishing your next book, *Cowboy*, yourself – will you be releasing it digitally?
CE: We are going full-in on digital. We will be offering the first chapter digitally for free. Then when the first arc is done, we'll print the collection. I think we can save so much money by not printing initially and using digital to gain interest in the book – and then offer it to all who enjoy the story.

MF: Have you changed how you work to adapt to the world of digital comics?
CE: I really want to start working on comics that will use the technology more. I see books like *The Fantastic Flying Books of Mr Morris Lessmore*, and I think that may be a fun hybrid of storytelling, animation and comics. ●



Chris uses Manga Studio and Creative Suite with his Wacom Cintiq 21UX to create artwork for his own comic books.



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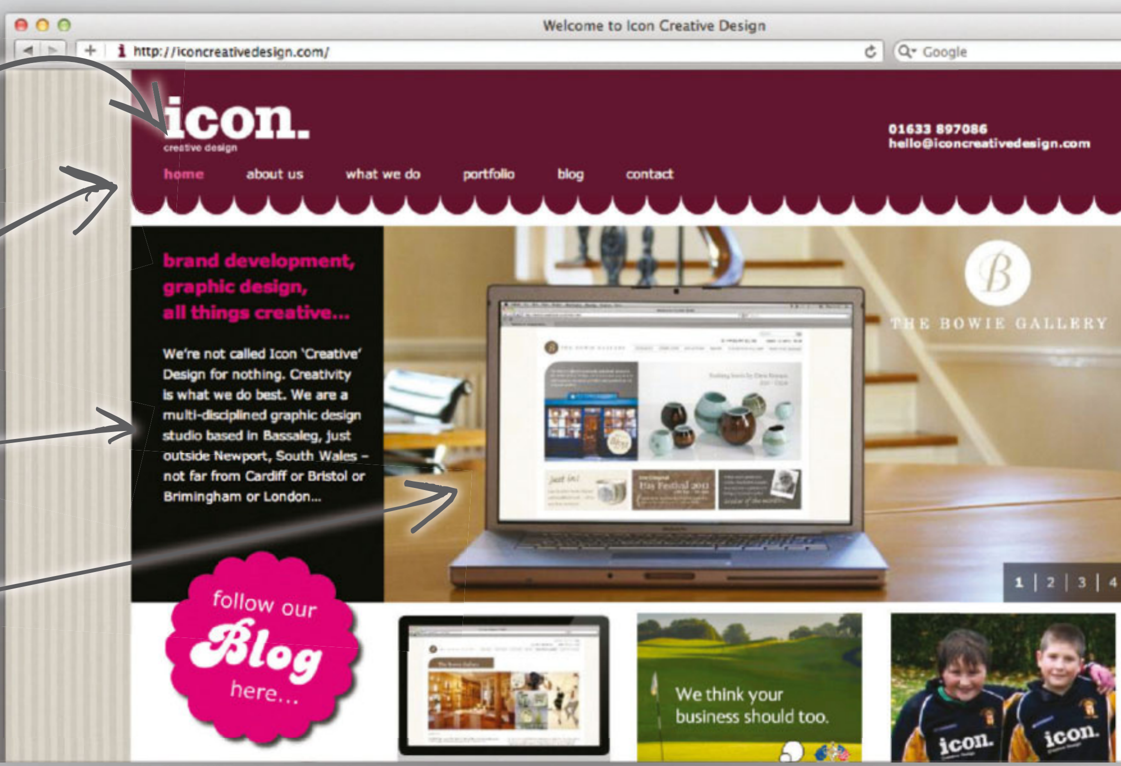
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Gadgets

The hottest kit on the horizon.
Here's what Apple is up against

▶ Roth KRadio

£199 www.rothaudio.co.uk

What is it? This versatile radio combines internet streaming broadcasts through Ethernet or Wi-Fi, DAB and FM radio and an iOS dock. Dual alarms mean it's ideal for the bedroom, and there are 10 presets for each of its three radio functions.

When's it due? Any time now.

Why are we excited? Roth audio products have an excellent reputation for sound quality. The KRadio's front-mounted controls are a move away from the minimalist design most digital devices go for these days, but that's no bad thing.

▼ appBlaster

£20 www.red5.co.uk

What is it? Mount your iPhone 3GS, iPhone 4 or fourth-gen iPod touch in the game controller and download *Apptoyz Alien Attack*. Images picked up by the rear-facing camera are overlaid with aliens in an exciting augmented reality game.

When's it due? Out now.

Why are we excited? There's nothing clever about the way appBlaster works, but it's a good laugh. We hope more games appear soon.

▼ Iomega Mac Companion

£183 or £275 www.iomega.com

What is it? This large-capacity (2TB or 3TB) external hard drive is styled to match your Mac. As well as connecting to your computer through FireWire or USB, it also includes a high-powered 2.1-amp charging port for your iPad or other iOS device.

When's it due? Available now.

Why are we excited? If you keep mislaying your charger, or struggle to find a spare plug socket, the Iomega Mac Companion Hard Drive is for you. It's great to have a charging port on your desk where it's always handy.

▶ Steadicam Smoothee

£170 **http://steadicam.com**

What is it? The trouble with using your mobile phone as a video camera is that it's almost impossible to prevent it shaking as you film. This clever device provides a counter-balance that helps keep your hand steady, and is based on the same principles used in professional rigs. It can be used with Flip Mino mini video cameras as well as iOS devices.

When's it due? Get one now.

Why are we excited? If your YouTube videos are too shaky to rack up the hits, you need a Steadicam Smoothee. It's handy, portable and the ideal solution to bouncy, wobbly camera footage.

▲ Click Car Mice

Wireless £40, USB £26

www.logicalgadgets.com

What is it? No, you haven't picked up a copy of *Fast Car* by mistake. These amazing automobiles are actually superbly realised mice, licenced from leading manufacturers. Look out for the Mini Cooper S, Range Rover Evoque, Maserati Gran Turismo, Aston Martin DBS, VW Beetle Ultima, BMW 24 and more. All mice in the range are Mac-compatible, feature working LED front and rear lights (which you can switch off if you wish) and have two buttons and a scroll wheel.

When's it due? Test drive one today.

Why are we excited? Take a peek at the website pictures. If it weren't for the scroll wheels in the middle of the bonnets, you'd think they were real cars. They're competitively priced too.

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▼ Numark DJ2GO

£50 **www.numark.com/dj2go**

What is it? Everyone wants to be a DJ these days, and thanks to modern technology, anybody can. Numark's DJ2GO is a USB DJ controller for your notebook Mac that works with almost any DJing app (*Virtual DJ LE Lite* is included).

When's it due? Out now.

Why are we excited? It's incredibly versatile for such a relatively inexpensive device. Numark DJ2GO includes equaliser and pitch adjusters, a crossfader, onboard controls for scrolling though your music collection and effects supplied by the software. It's powered via the USB port.

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Feedback

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Let us know what you think about your Mac, MacFormat and everything Apple

Lion in the clouds

Launchpad has been criticised for being gimmicky more than anything else.

Having just installed OS X Lion on my MacBook Pro, I am left wondering what all the song and dance is about. I definitely won't be installing the system any time soon on any other part of my network.

Out of the cloud it installs nicely, looks pretty and has the usual Apple polish to it, but that is where its niceties stop. The sudden realisation that it will not talk to my NAS drive shares on the network, requires a Java patch to run *CS5* that is nearly impossible to find, and has incompatibility with a number of Flash types leaves me wondering why I bothered. Could I grow to like the multi-touch gestures? Unlikely, as I find the Magic Trackpad gives me cramp and thus relegates gestures to my laptop. Could the backup systems when working on documents win me round? Improbable, as over the years I have learned like Pavlov's dog to do this without thinking, having had many PCs crash. Could it be the full-screen apps? Well, what's the point? Since on a 27-inch screen you have the real estate to have multiple windows rather than a lot of empty space. Could it be Launchpad, which makes my computer look like my iPhone? Well, that one doesn't take rocket science to answer. Or could it just be that misguided desire to have the latest Apple toy? And there lies the sad but truthful answer.

Lion has a lot going for it for the home user. But for those of us who have Macs deployed for

STAR LETTER / Classic Macs live on and on

In the past two issues you have had articles on old Macs. Well, here's one from way back when. In 1984, I was stationed in New York; while like many others I had become used to working with that huge machine in the back office, the chances of having one of your own at home was fairly rare. I took the plunge and acquired an Apple 11c.

Since then I have become an Apple fanatic, currently owning the latest Mac Pro. I have not been able to resist upgrading. However, I've kept my 11c and have pulled her out of the locker to photograph for you, and to show she is still operating. I actually have to have two transformers, because she is geared for the USA. Although there is the working memory within, a floppy disc is essential. One can operate a disc reader within the computer, your program occupies the disc space, while computer memory is for base operation.

Regrettably, I did not keep the printer, but the system still works and setting it up again for this photo brought back many fond memories.

Rod Brown

MacFormat replies: Thanks for sending such a great picture, Rod. It's amazing to see that your Apple 11c is still working after all these years – a true testament to Apple's enduring design. We wonder how many of today's Macs will still be going strong after almost 20 years!

Rod's still-functioning Apple 11c. We wonder how much he'd get for it on eBay?

STAR LETTER

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Developer Resources

Discover a whole lot more about iCloud - Apple's next big thing - on page 26.

business, until the bugs get sorted and the system integrates with existing networks then this is a case of the Lion that squeaked rather than the mouse that roared.
Tom Sweetnam

MacFormat replies: If you're going to install a brand-new operating system such as Lion on a business-critical setup then we would certainly advise waiting until at least a few software updates have been issued by Apple. There will inevitably be a few lingering little bugs that take a while to track down and fix. Features like new multi-touch gestures and Launchpad might not be for you, Tom. But we notice you didn't criticise Lion's Mission Control – for us this is perhaps the one must-have feature that really makes Lion worth it. We're confident that a lot of people will benefit from it.

Fake leather

Having just updated to Lion, I was shocked by the look and feel of the new *iCal* and *Address Book*: the fake-looking leather of the *iCal* interface, with delicate stitching and the remains of a torn-off page; and the *Address Book*, a virtual version of an item many users will probably never have seen!

If Apple is concerned that its cutting-edge design might not appeal to what is now a much wider customer base, perhaps it could create alternate versions of these apps. This way, you could choose a flowery calendar, or an address book with pictures of cuddly pets or fancy scribbles to decorate the pages.
Milan Svanderlik

MacFormat replies: Apple's efforts to unify the look and feel of *iCal* with the iPad's *Calendar* app have generated a lot of criticism. We can see the argument that *iCal* stands out in stark contrast to the minimalist look and feel of Lion. But some of the *MacFormat* team also favour the look of Lion's homely *iCal* and *Address Book* apps too.

Cloudy Aperture

I read your excellent article on the forthcoming introduction of iCloud. In the section titled 'Top 5 iCloud features' you discuss Photo Stream. Does the application of Photo Stream – 'keeping your photos synced across all your devices' – apply to *Aperture 3*? If not, then it may mean that I shall have to either maintain two libraries, *iPhoto* and *Aperture 3* (increasing my workload), or revert to the former, thereby making the purchase of *Aperture 3* a white elephant!
Phil Worthington

MacFormat replies: Good question, Phil. There has been no official word on whether Photo Stream will support *Aperture*, with only *iPhoto* mentioned in Steve Jobs' keynote address and on the Apple website. We'll just have to wait to see. In the meantime, check out our iCloud feature on page 26. ●

APPLE EVENTS / What's going on?

AD:TECH LONDON
21-22 September, Olympia
Now in its seventh year, this event sees Facebook, YouTube and high-street brands take the opportunity to talk digital advertising. Essential for publishers and advertisers alike.

MACFORMAT Issue 240
12 October
Get the latest news, views, information, features and reviews from the world of Apple.

APPS WORLD, London
30 November - 1 December
The event for app developers across multiple platforms. Expect keynote speeches and advice from the great and the good of this booming business.

CES, Las Vegas
10-13 January 2012
CES is the annual event Apple doesn't attend and which is constantly overshadowed by whatever product or service it's expected to announce next.

BETT, London
11-14 January 2012
The world's leading technology in education show and a regular hotbed of Apple-related solutions and technologies.

MACWORLD CONFERENCE AND EXPO, San Francisco
26-28 January 2011
The once-legendary Apple event continues to shrink now the company it is all about no longer takes part in the show.

Twitter (@#!) talk

From the Twittersphere

We asked:
Was Apple right to remove the SuperDrive from the new Mac mini?

@mattgemmell
"Yes. With cheap, reusable, bootable USB/etc drives, and downloadable apps/games, there's rarely a need for optical media."

@eighty20risk
"Yes. The whole notion of drives has been superseded in recent years. I have no idea when I last used the drive on any of my Macs."

@Craig_71
"Ridiculous idea. I've an old Mac mini and if I had to replace it I'd have to buy a separate CD/DVD writer like I had 10 years ago."

@windstano
"No. They were positioning it as an HTPC device with this revision, to kill optical media now is premature."

@_drezha
"The only reason for an optical drive today is for media centres and that's covered with the Apple TV."

@db189
"It should be there so you can play DVDs when using it as a media centre. A Blu-ray player would be better."

@DarthSarcasm
"I don't remember the last time I used an optical drive!"

You can find out what we're up to each month by following the team at Twitter.com/MacFormat

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MacFormat investigates

What does iCloud mean for you?

With Apple's cloud-based service on the horizon, it's time to look at what this might mean for the average Mac user

When iCloud arrives this autumn it will replace the MobileMe subscription service. There's a lot of overlap between their features, and your MobileMe account can be moved to iCloud, retaining your email, calendars, contacts and *Safari* bookmarks in the process. iCloud has some exciting new features that make life with your Mac and iOS devices a bit easier. However, it's not all plain sailing. Some MobileMe features to which you've grown accustomed will be phased out. Some will remain accessible until the end of June next year, but others will be immediately revoked when you migrate to iCloud.

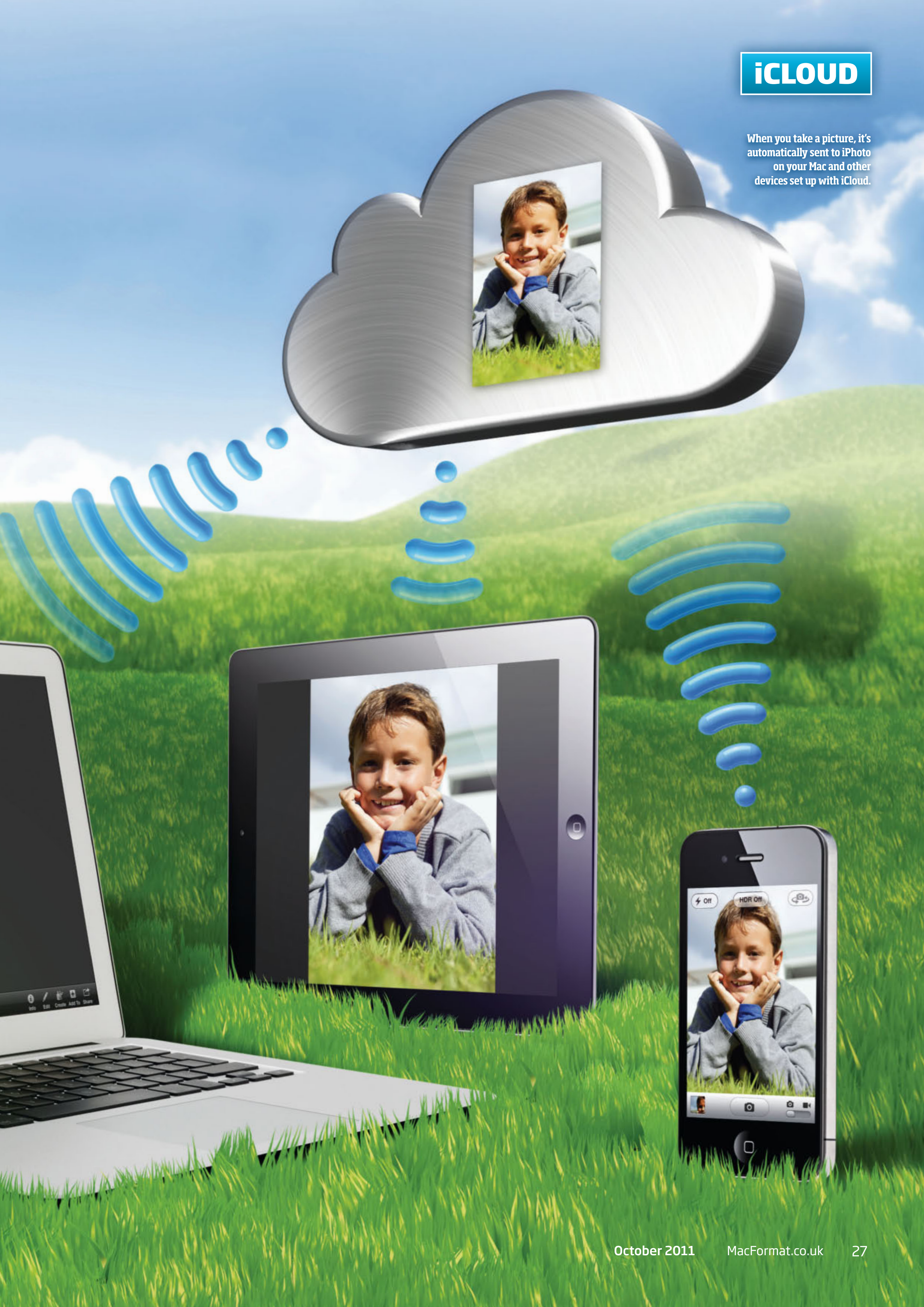
You've got a couple of options available on how to handle that transition. You can carry on using your MobileMe account without any changes being imposed until 30 June, at which point it will be converted to an iCloud account. The alternative is to convert it ahead of that deadline. Either way, now's a good time to look at ways to plug the gaps.

Whichever route you pick, iDisk will remain accessible until the curtain falls on MobileMe for good. You'll need to download files you want to keep before then. Apple has published a guide to preserving files on iDisk, your *iWeb* site and galleries created with *iPhoto* (**http://support.apple.com/kb/HT4686**, HT4701 and HT4702).

iDisk is easy to replace because there are so many online storage providers. Many of these services offer some space for free – typically up to 5GB – but your files might not be guaranteed to stay online in perpetuity, especially if your account sits dormant for a while.

»

Full Screen
Search
Zoom
Events
Faces
Places
Albums
Projects
MacBook Air


Off
HDR Off
Info
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When you take a picture, it's automatically sent to iPhoto on your Mac and other devices set up with iCloud.

6
Monday 6 June
2011
Lunch with Katie
Conference Call
Football Practice

Beta
iCloud
iCloud Beta Developer Sign In
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Sign In
Developer Resources

ABOVE: iOS 5 will be able to connect to iCloud. Apps in older versions should connect when you enter settings by hand. **RIGHT:** You can access email, contacts, calendars and locate your Mac and iOS devices through iCloud's website.

SugarSync (www.sugarsync.com) and Dropbox (www.dropbox.com) sync folders on your Mac to free online storage and, from there, to other Macs and iOS devices. Both services provide a public folder and the ability to copy a link to any file in it, allowing you to share that file with someone. Neither quite matches the password protection and expiration options available with MobileMe, although SugarSync can protect a folder so that its contents aren't accessible to all and sundry.

iDisk stores pages published from *iWeb* and *iPhoto*. Apple's guides will help you preserve those pages, or at least any photos stored on them. In addition to the ever-popular Facebook option, *iPhoto* can also publish to Flickr. This feature provides options to make photo sets visible only to friends or family.

If you're content to host your photos on such a site and only want to publish a blog, consider opting for one of the many options that host the site for you. They range from friendly options such as Google Blogger (www.blogger.com) to more powerful alternatives such as WordPress (www.wordpress.com). Neither of those requires you to pay for a domain registration or storage space, although it's at the expense of full control of your site.

iWeb remains a viable option for publishing in the short term as the latest version works on Lion, but it isn't actively developed, so also check out *RapidWeaver* (www.realmacsoftware.com). It's similarly straightforward for building sites and offers the option of direct publishing to an FTP site if you want to take more control over your site's appearance and hosting.

You've still got months to back up your iDisk, galleries and website and to find out which alternatives best fit your needs. It's other features that you'll lose by moving to iCloud that might stop you dead in your tracks.

In iCloud, system and app preferences that only apply to the Mac aren't as trivially portable. Keeping *Dashboard* widgets, items in the Dock and many settings from *System Preferences* (detailed at http://support.apple.com/kb/ht2085) in sync isn't as simple as ticking a box. You can copy the files that store their settings from ~/Library/Preferences on one Mac to another, but always back up the existing copy as some preferences contain references to folders and files, such as installed widgets, that may not exist on all of your Macs. You'll need to check preferences in the respective apps to ensure everything's still set correctly. So, depending on how complex and how many settings you need to keep in sync, it might be more straightforward just to set them by hand.

> *"You've got months to back up your iDisk, galleries and website and find out which alternatives fit your needs"*

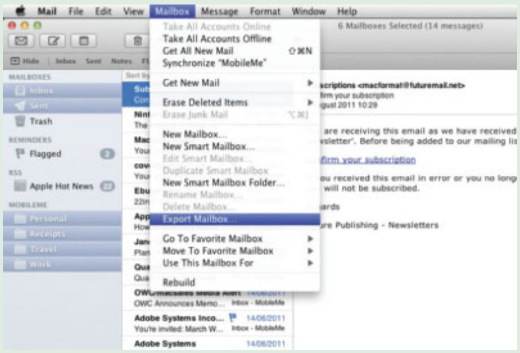
That's not the case when it comes to *Mail*, though. It makes extensive use of MobileMe to make sure your messages are treated the same way on each Mac. iCloud doesn't even keep the configured accounts in sync, but that's something that you're unlikely to change with any frequency. More problematic is its inability to sync signatures, rules and any smart mailboxes you create from day to day. The latter two, in particular, can be complex to recreate from scratch on each of your Macs. All three are easily configured then copied from ~/Library/Mail/V2/MailData to another Mac.

The Signatures folder can be copied directly. It only contains web archives for each signature you've written and a preferences file that

>> HOW TO / Back up before converting

Moving from MobileMe to iCloud should preserve your mail, contacts, calendars and bookmarks, but it's wise to make a local backup just in case. *Time Machine* will have backed up the information if you haven't excluded **~/Library** from its watchful gaze, but it's a good idea to make an external copy that isn't affected by unforeseen problems when syncing with the cloud.

In *Mail*, select mailboxes in the left pane by holding [⌘], then choose Mailbox > Export Mailbox… to create archives of them in a new folder. If copies on the server are lost then because of the way MobileMe keeps things in sync you might find they're missing on your Mac, too. In that case, they can be restored locally using File > Import Mailboxes…, then moved back to an IMAP mail server so they're still accessible from your other devices. *Safari's* Bookmarks are in **~/Library/Safari/Bookmarks.plist**. Apple advises not to use File > Export > Export as Calendar… for backing up calendars that sync to the cloud because their data, when restored, will be immediately removed from *iCal* again. For instructions on how to avoid this by first restoring to local calendars stored on your Mac, see **http://tinyurl.com/3apa6kj**.


Mail
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Mailbox
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Help
6 Mailboxes Selected (14 messages)
Take All Accounts Online
Take All Accounts Offline
Get All New Mail ⇧⌘N
Synchronize "MobileMe"
Get New Mail
Erase Deleted Items
Erase Junk Mail
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New Smart Mailbox…
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New Smart Mailbox Folder…
Rename Mailbox…
Delete Mailbox…
Export Mailbox…
Go To Favorite Mailbox
Move To Favorite Mailbox
Use This Mailbox For
Rebuild
MAILBOXES
Inbox
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REMINDERS
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MOBILEME
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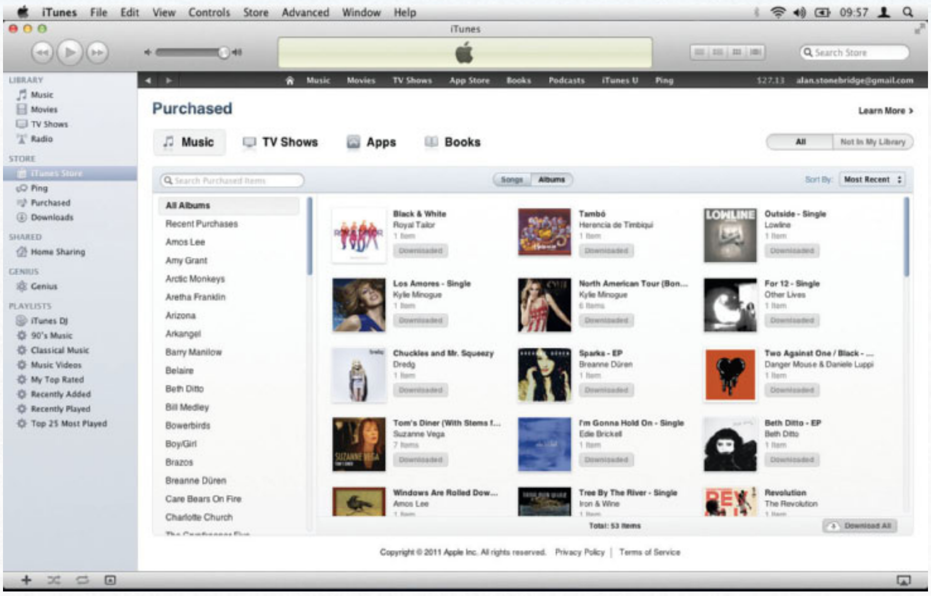
Receipts
Travel
Work

You can access email, contacts, calendars and iCloud's website.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iTunes
Purchased
Music
TV Shows
Apps
Books
All Albums
Total: 53 items
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Past purchases of music and TV shows can be redownloaded in the US, but we're limited to apps and books for now.

ascribes them to *Mail*. Similarly, MessageRules.plist and SmartMailboxes.plist can be copied, but restart *Mail* after copying them and check that everything is intact by going to Preferences > Rules, right-clicking each smart mailbox and choosing Edit Smart Mailbox…. After copying any preference files, select the files in the *Finder* and choose File > Get Info to verify that permissions are set so that your account can read and write to them.

You might have noticed that since iCloud was announced you can't amend email aliases through me.com. Any aliases you've already set up continue to work today, but Apple's page about transitioning to iCloud doesn't mention them at all. The good news is that although creating, editing and deleting aliases is currently unavailable, accounts moved from MobileMe will regain these abilities.

iCloud's most impractical omission is keychain syncing. If the prospect of having to remember dozens of unique passwords fills you with dread, rest assured the solution is simple, although it has a price tag. *1Password* (www.agilebits.com) keeps track of website logins and other details that are difficult to remember. Unlike *Keychain Access*, it can sync to an iOS app so you can easily retrieve passwords without your Mac to hand. In place of Apple's cloud storage, it relies on a free Dropbox account to sync its data.

If there's no pressure to convert your account to iCloud until next summer, why not bide your time? iCloud has some great new features that you might want to use as soon as it launches. Convenience is a recurring theme among them, and it's exemplified by Photo Stream.

When you take a picture with your iOS device or add a picture taken with another camera to *iPhoto* on your Mac, it's uploaded to iCloud and stays there for 30 days. The Photo Stream will be accessible from all of your devices, and any images you want to keep on a device can be saved to an album. The idea is that you won't have to connect your device by cable to your Mac to show off your recent snaps to friends. Apple has mentioned that Photo Stream will be accessible from Apple TV and that it will appear in *iPhoto*, but it hasn't made mention of whether it's also coming to *Aperture*.

This convenience extends to documents as well. Right now you might spend time copying files to a USB flash drive or a MacBook, syncing them to your iPad via *iTunes*, or uploading them to your iDisk. Apps that make use of the Documents in the Cloud feature automatically send your work to the server, which pushes them to your other devices so they're ready and waiting for you. Apple's *iWork* apps will be among the first to use this.

The foundation of iTunes in the Cloud is already available to you in iOS 4.3 and *iTunes 10.3* on the Mac. With those versions, you can redownload previous purchases, although in the UK it's currently limited to apps and books. Our US cousins can grab their music and TV shows, again at no extra charge from Apple. Complementing this, iTunes Match will cross-reference music in your Mac's library that was acquired from other sources, such as CDs. Music that's also available from Apple can be downloaded at no additional charge above a flat-rate $24.99 annual subscription. It doesn't matter that your iOS device has limited capacity or that something you want to hear is on your Mac. Just go online and you can download it on the spot. Sadly, this feature will only be available in the US this autumn, and there's no firm date for when it will roll out internationally.

> *"When you take a picture with your iOS device, it's uploaded to iCloud and stays there for 30 days"*

» CLOUD / Comparison

iCloud (UK)

5GB	**Free**
Additional 10GB	**£14 per year**
Additional 20GB	**£28 per year**
Additional 50GB	**£70 per year**

iCloud (US)

5GB	**Free**
Additional 10GB	**$20 per year**
Additional 20GB	**$40 per year**
Additional 50GB	**$100 per year**

Dropbox

2GB	**Free**
50GB	**$9.99 per month**
100GB	**$19.99 per month**

SugarSync*

5GB	**Free**
30GB	**$4.99 per month or $49.99 per year**
60GB	**$9.99 per month or $99.99 per year**
100GB	**$14.99 per month or $149.99 per year**

**250GB and 500GB plans also available*

You'll have web-based access to email, contacts, calendars and Find My iPhone. Plus you'll be able to track down a missing Mac just like an iPod touch or iPad. Apple has emphasised that iCloud will be free for OS X Lion and iOS 5. It hasn't elaborated on what this means for Snow Leopard and older iOS devices, but it's highly likely you'll be able to connect *Mail*, *iCal* and *Address Book* with manual settings.

There's one more important feature. A device that's recharging, connected to Wi-Fi and locked can back up its contents to iCloud, so there's no need to connect to your Mac to protect your information. It works transparently, but on a grander scale since you can restore a device – or set up a new one – even if your Mac is on the other side of the world. ●

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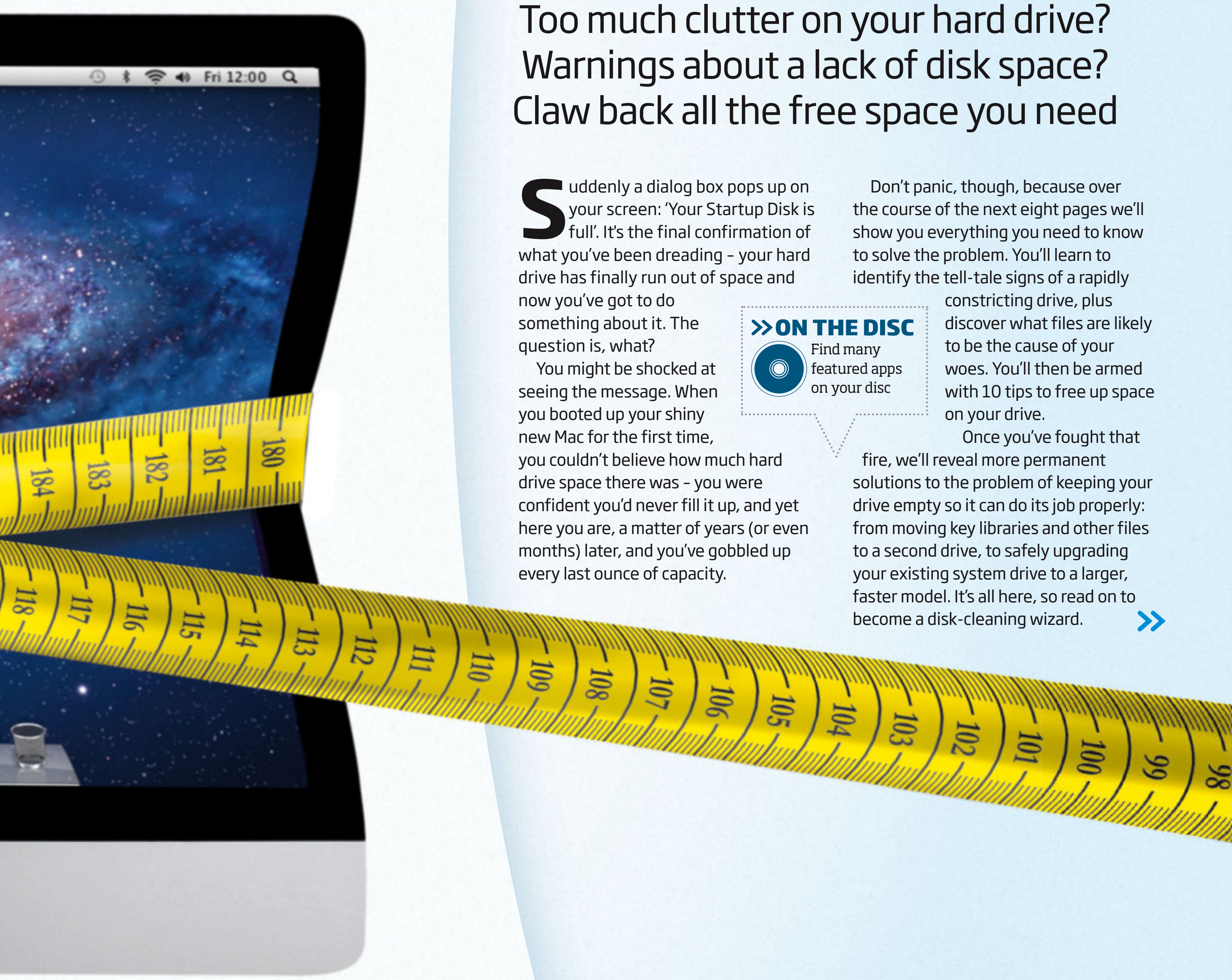
Words: Nick Peers **Illustration:** Paul Blachford

Slim down

Finder File Edit View Go Window Help

your Mac

Too much clutter on your hard drive? Warnings about a lack of disk space? Claw back all the free space you need



Suddenly a dialog box pops up on your screen: 'Your Startup Disk is full'. It's the final confirmation of what you've been dreading – your hard drive has finally run out of space and now you've got to do something about it. The question is, what?

You might be shocked at seeing the message. When you booted up your shiny new Mac for the first time, you couldn't believe how much hard drive space there was – you were confident you'd never fill it up, and yet here you are, a matter of years (or even months) later, and you've gobbled up every last ounce of capacity.

Don't panic, though, because over the course of the next eight pages we'll show you everything you need to know to solve the problem. You'll learn to identify the tell-tale signs of a rapidly constricting drive, plus discover what files are likely to be the cause of your woes. You'll then be armed with 10 tips to free up space on your drive.

Once you've fought that fire, we'll reveal more permanent solutions to the problem of keeping your drive empty so it can do its job properly: from moving key libraries and other files to a second drive, to safely upgrading your existing system drive to a larger, faster model. It's all here, so read on to become a disk-cleaning wizard. »

»ON THE DISC
Find many featured apps on your disc

Where does all the space go?

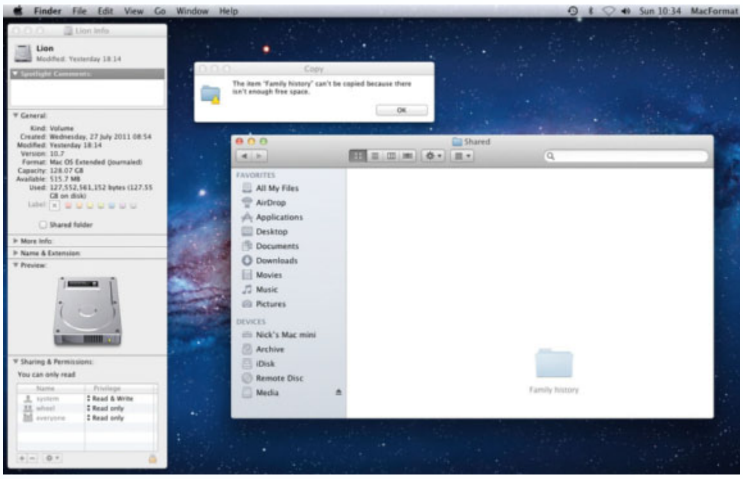
Discover what's gobbled up all that free drive space on your Mac

» QUICK TIP Remember that moving your files from one drive to another (or burning them to disc before deleting the original) isn't backing them up – ensure you have at least one additional copy of your files as well as the originals.

With all that free space disappearing fast, you need to understand both where it's gone and the consequences of letting your hard drive fill up to its limits. The first thing to understand is how your hard drive has become so full. The likelihood is you've installed a fair few applications, some of which you were trying out and forgot all about during those heady days when you thought that space would last forever. That can account for a few gigabytes of space easily, but it's only the tip of the iceberg.

Next, there are all those files you've downloaded from the internet via your browser, or received as email attachments. Again, it's easy to let them just pile up on the off-chance you might need them at some unspecified point. All well and good, but yet more gigabytes of precious drive space have gone in the meantime.

The biggest drain on your hard drive will, however, be your personal files, and specifically all those photos and videos you've uploaded from your brand spanking new camera and camcorder. Today's high resolutions come at a price – every 10-megapixel photo consumes around 4MB in JPEG format, or up to 15MB in raw format. That equates to anything from 400MB to 1.5GB for every 100 photos on your hard drive.



Kind: Volume
Created: Wednesday, 27 July 2011 08:54
Modified: Yesterday 18:14
Version: 10.7
Format: Mac OS Extended (Journaled)
Capacity: 128.07 GB
Available: 515.7 MB
Used: 127,552,561,152 bytes (127.55 GB on disk)

The item "Family history" can't be copied because there isn't enough free space.

You'll know you're in trouble when you can't copy folders or files due to a lack of free space.

It's even worse when you look at all the camcorder footage you've got stashed away. The average one-hour HDV tape holds 13GB of data, so it doesn't take long to gobble up hundreds of gigabytes with your original footage, never mind the final edited movie.

> *"The biggest drain on your hard drive will be your personal files, and those uploaded photos and videos"*

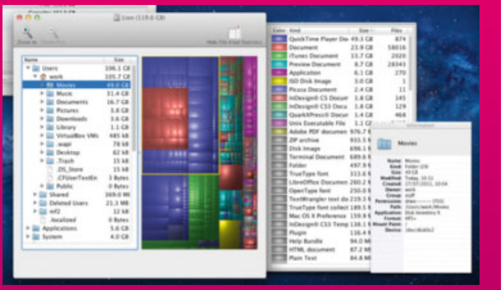
It doesn't end there either: your *iTunes* library can consume more than its fair share of space, what with your music collection, podcasts, movies and TV shows to handle. You might also be surprised to learn how many duplicated files exist on your hard drive – it's bad enough having two or three copies of a file, but when that file is a 10GB movie you can quickly see how it is that the hard drive that looked virtually bottomless a few months ago is suddenly full to the brim.

» HOW TO / Discover how much drive space is left

It's a relatively simple process to discover how much free space is left on your hard drive: open the **Go** menu in *Finder* and select **Computer**. Click your system drive to select it, then press ⌘ + I. (Alternatively, right-click the hard disk icon in *Finder's* sidebar and select **Get Info**.) On its own, this doesn't really tell you much – simply how much free space is left on the drive.

While it's possible to use the **Find** option in *Finder* to hunt down those files taking up most space on your hard drive, a better bet is to use a tool like the visually appealing *DaisyDisk* (see over the page) or *Disk Inventory X* to find out where those space-hogging files are.

In the case of *Disk Inventory X* (a PPC app, therefore non-Lion systems only), fire up the program after installing it from the cover disc. Select your drive from the list and click **Open Volume**. Once the drive is scanned, you can quickly and easily locate the files taking up most space.



Disk Inventory X shows where your free space has gone.

Facing the consequences

It's therefore obvious that even the largest hard drive can quickly become overwhelmed with all those files you've been copying to it. Having acknowledged that this isn't just a problem for MacBook Air owners with a paltry 64GB of drive space, what are the tell-tale signs that your drive might be starting to reach its limits?

The first landmark isn't one that will necessarily trigger any alerts, and occurs when your drive nears 90% of its capacity. Your Mac needs at least 10% free space on the drive to help it keep files in a neat, contiguous order (a process known as defragmentation). As your drive fills up and the defrag process grinds to a halt, your files start to get split up into multiple parts to fit the available space, ending up physically scattered all over your drive.

File fragmentation may not be an issue for newer solid-state drives (SSDs) due to their lack of moving parts and an ability to access any part of the drive almost instantaneously. But for the vast majority with traditional drives (HDDs) which utilise rotating platters and mechanical drive arms, fragmentation is the first tell-tale sign that all is not well.

You'll start to notice performance suffer as the drive works harder to read and write files. Your Mac becomes increasingly sluggish. You're not doing your drive's physical health any favours either since its moving parts have to work harder, increasing drive temperature and ultimately shortening its lifespan.

Running out of space

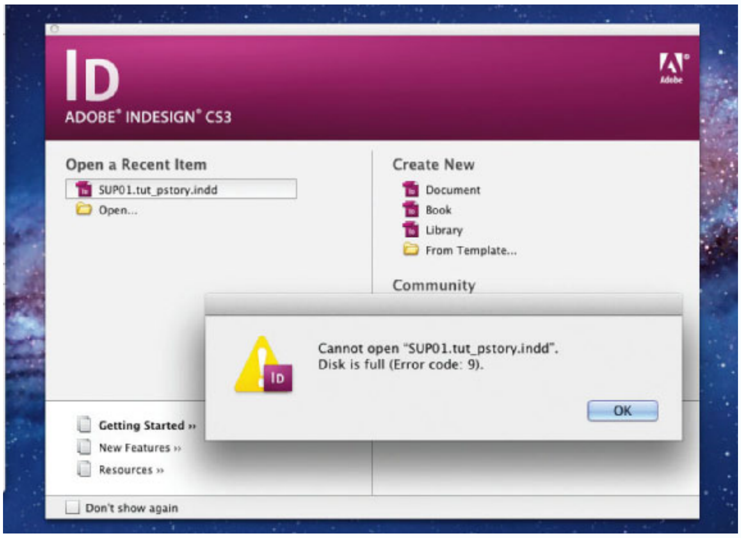
The next milestone is reached as the amount of free space drops below 1GB. Certain applications may start to display warning messages, and performance slows even further. Your Mac itself will start to tell you the drive is full or almost full, and exhort you to start freeing up space.

> *"Your Mac will start to tell you the drive is almost full, and exhort you to start freeing up space"*

You'll also start to get error messages every time you try to copy large folders to your drive, informing you there's not enough drive space to complete the operation. Push things further, and as your free space dips below 100MB you'll find things get even worse. Applications routinely 'borrow' tens or even hundreds of megabytes of space when running, and the most resource-intensive applications will start to complain loudly about a lack of drive space, or even refuse to start at all.

Eventually you'll reach the final point: there will be little or no disk space left at all. Applications won't even be able to launch, while those applications already running may suddenly grind to a halt or begin to quit unexpectedly.

Hopefully you'll never reach this point: the time to take action is when your hard drive approaches the 90% full mark, before any warning messages start to appear.



Cannot open "SUP01.tut_pstory.indd".
Disk is full (Error code: 9).

Once you start receiving error messages like this, it's time to claw back some disk space.

Diagnose the problem

The first thing to do, then, is find out how much free space is left on your system drive. You'll then want to identify which files are taking up the most space on your drive – it's quicker and easier to deal with a handful of large files than to try and free up a relatively small amount of space by working with dozens or even hundreds of smaller files.

The how-to box on the opposite page reveals how to use *Finder* and a free tool called *Disk Inventory X* to find out how much free space is left on your system drive, and which files are responsible for swallowing up large chunks of it (Lion users can select > About this Mac from their menu bar for similar information). What *Disk Inventory X* will confirm is that the bulk of your files reside in the Users folder inside your Home folder. That's unsurprising seeing as this is where all your movies, photos, music and other files are likely to sit.

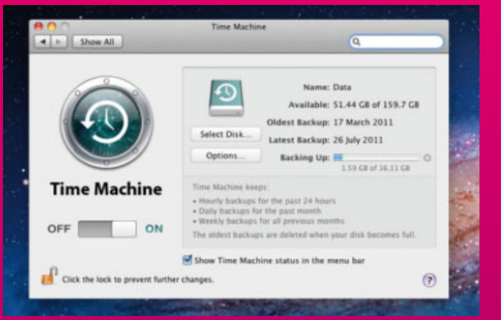
Now you've acknowledged there's an issue, identified the likely culprits and taken that all-important backup of your drive, you're ready to start tackling the problem. Turn the page to find out how.

»

»HOW TO / Take precautions

It's tempting to simply wade in and start cleaning up your hard drive without a thought for the consequences. But while there are many files on your Mac you can safely do without, others will be irreplaceable, such as photos, home movies, documents, emails and other personal files.

It's therefore absolutely vital that you take steps to back up your Mac's hard drive before you begin. A complete guide to doing so can be found in issue 237 of *MacFormat*, but the quickest and simplest solution is to use *Time Machine*. Attach a backup device if you haven't done so already (see page 39 for some hints and tips on picking the right model for your needs) and *Time Machine* should automatically leap into action. If it doesn't request to use the newly attached hard disk for backup purposes, check that it's on and running by opening it from *System Preferences*. Note that you can exclude certain files in the *Options...* area of *Time Machine's* dialog, accessed by clicking on its menu bar icon or preference pane. Once it's finished the initial backup, you're ready to start cleaning.



Name: Data
Available: 51.44 GB of 159.7 GB
Oldest Backup: 17 March 2011
Latest Backup: 26 July 2011
Backing Up: 1.59 GB of 16.11 GB

Time Machine keeps:
- Hourly backups for the past 24 hours
- Daily backups for the past month
- Weekly backups for all previous months

The oldest backups are deleted when your disk becomes full.

☑ Show Time Machine status in the menu bar

Click the lock to prevent further changes.

Make sure you have at least one backup of your drive.

»QUICK TIP

Before performing any disk cleaning, and after you've backed up your computer, open *Disk Utility* from the Applications > Utilities folder. Select your hard disk and click **Verify Disk** to check its integrity and ensure there are no errors.

Top 10 tips for freeing up space

Reclaim much-needed disk space by removing files you no longer need

>> QUICK TIP

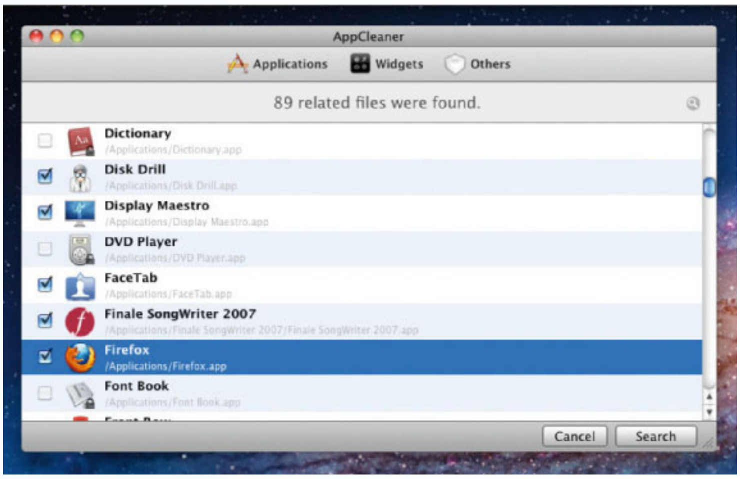
If you want to be sure any files you delete are well and truly removed from your hard drive, drag them into the Trash as normal, but when you come to empty it, open the *Finder* menu and choose **Secure Empty Trash** instead. A sure-fire nuke.

01 EMPTY THE TRASH

When was the last time you emptied your Trash folder? People often make the mistake of simply dragging files into the Trash and forgetting they're still there, continuing to take up precious space on your hard drive. Assuming you're not foolish enough to use the Trash as some kind of half-way house for files you think you might need at a later date, the quickest way to free up much-needed space is to empty it. Open the *Finder* menu and choose Empty Trash to do so – if some files refuse to vanish, repeat the process, holding down ⌥ before you click Empty Trash to remove stubborn files.

02 CLEAR OUT DOWNLOADS

If you regularly download apps and other files from the web you may find one easy way to free up a few gigabytes of space is to check the Downloads folder for files. Delete any you don't need, or drag the lot to the Trash – you can always download them again. *Mail* users can also clear up space by deleting long-forgotten file attachments from their mail. These are stored in your personal Library/Mail Downloads folder – it's hidden in Lion, but you can access the Library folder from *Finder*: hold down the ⌥ key as you click on Go and select Library. Deleting file attachments from here won't affect the original messages.



89 related files were found.

☐ Dictionary /Applications/Dictionary.app
☑ Disk Drill /Applications/Disk Drill.app
☑ Display Maestro /Applications/Display Maestro.app
☐ DVD Player /Applications/DVD Player.app
☑ FaceTab /Applications/FaceTab.app
☑ Finale SongWriter 2007 /Applications/Finale SongWriter 2007/Finale SongWriter 2007.app
☑ Firefox /Applications/Firefox.app
☐ Font Book /Applications/Font Book.app

AppCleaner ensures that an application's related files are deleted along with said app.

03 REMOVE DUPLICATES

One of the biggest causes of wasted file space is duplicate files. You'll be amazed how many copies of the same file could be clogging up your hard drive. Decent duplicate-finding tools, like *Singlemizer*, do more than just look for matching filenames – they check the file itself to make sure it's a genuine match.

Singlemizer (£6.99 from the App Store) offers a free trial (on the disc) that lets you perform 20 scans of your drive before registration is required. Simply select the drives or folders you wish to scan, and then leave it to do its work. All deleted files are sent to the Trash, so until you empty it, you can still get them back.

04 CLEAR OUT THE JUNK

You might be surprised at how much drive space is being taken up by files you've long forgotten about. Tracking them down can be difficult, which is where *DaisyDisk* comes in. It simplifies the process of identifying large files on your drive, letting you identify and – if they're no longer needed – delete them too. The step-by-step guide opposite reveals how simple it is to use, but note you'll need to purchase the full version (£6.99, App Store) to actually delete the files from your drive.

05 COMPRESS OLD FILES

If there are files you don't want to lose, but don't necessarily need quick and easy access to, consider

>> HOW TO / Use these three useful cleaning apps

Xslimmer

To trim down the applications left on your Mac and free up even more drive space, try *Xslimmer* ($15). It's simple to use: click the **Genie** button to scan all your apps and discover how many hundreds of megabytes you can reclaim without having to sacrifice a single app. For a more in-depth guide to *Xslimmer*, see page 70 of *MacFormat* issue 237.

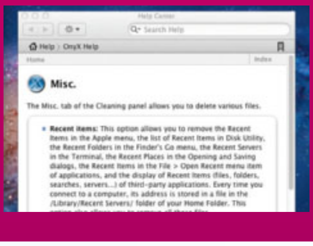
OnyX

This freebie is a general system maintenance tool with some nifty clean-up tools to help shift hard-to-reach files. Once launched, select the **Cleaning** tab to choose which log files and caches to sweep. Check out the **Misc** tab where there's a shortcut for clearing out various app folders, including obsolete *iTunes* libraries and your **Mail Downloads** folder.

IceClean

This powerful (and free) tool harnesses the power of your Mac's built-in capabilities by giving you complete control over various system tasks that help keep your hard drive in good shape. These are normally set to run late at night, and if your computer is switched off, are skipped. *IceClean* allows you to run them manually, helping your Mac stay clean.

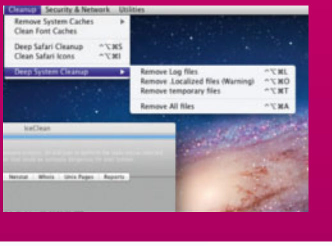
Size cannot be reduced — Application is blacklisted
Size cannot be reduced — Application is blacklisted
Current Size 2.82 MB / Projected Size 1.53 MB — An admin password will be required to slim this app
Size cannot be reduced — Application is blacklisted
Size cannot be reduced — Application is blacklisted
Current Size 9.70 MB / Projected Size 3.63 MB — An admin password will be required to slim this app
Current Size 15.2 MB / Projected Size 5.80 MB — An admin password will be required to slim this app
Current Size 7.07 MB / Projected Size 6.42 MB — An admin password will be required to slim this app



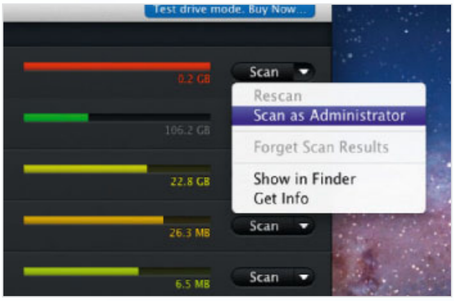
Misc.

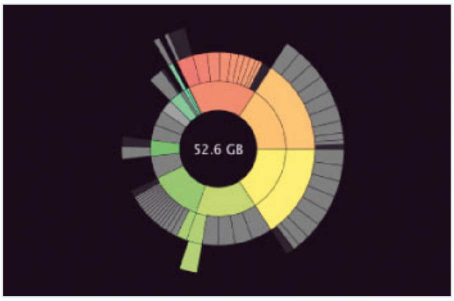
The Misc. tab of the Cleaning panel allows you to delete various files.

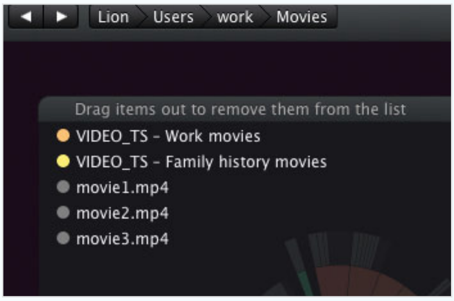
- **Recent items:** This option allows you to remove the Recent Items in the Apple menu, the list of Recent Items in Disk Utility, the Recent Folders in the Finder's Go menu, the Recent Servers in the Terminal, the Recent Places in the Opening and Saving dialogs, the Recent Items in the File > Open Recent menu item of applications, and the display of Recent Items (files, folders, searches, servers...) of third-party applications. Every time you connect to a computer, its address is stored in a file in the /Library/Recent Servers/ folder of your Home Folder. This



HOW TO / Free up drive space with DaisyDisk







Drag items out to remove them from the list
- VIDEO_TS – Work movies
- VIDEO_TS – Family history movies
- movie1.mp4
- movie2.mp4
- movie3.mp4

01 Scan drive

Install the *DaisyDisk* trial from your disc. Launch it from the **Applications** folder. Click the down arrow by the **Scan** button next to your overloaded system drive and choose **Scan as Administrator**. Enter your admin password and click **OK** to perform a complete scan of the drive.

02 Find and preview files

Your drive will be shown as a pie chart, with folders taking up the most space on the right. Click one (typically your user folder) to start drilling down through folders until you locate some large files. Select one and press the [Spacebar] to preview it.

03 Collect and delete

Drag unwanted files and folders to the **Drag and drop files here…** icon. Keep searching for other unwanted items, dragging them to this icon. How much space you'll free up will be shown – click this to see files to be removed, or click **Delete** to remove them (after purchase). ●

compressing them into zip file archives, which – depending on the file type – could free up significant amounts of free space.

Don't try to archive everything in a single zip file. Instead, archive groups of related files or individual folders by selecting them in *Finder* and choosing File > Compress… Once complete, delete the original files and folders. To restore the archived files, just double-click the zip file to automatically extract their contents.

06 STREAMLINE YOUR APPS

How many apps have you installed that you've never or rarely used? Another way to free up space is to delete these unwanted programs from your drive. Dragging the program icon to the Trash is a rather imperfect solution; instead, use the free *AppCleaner* on your disc. Launch the program and click **Applications** to view all currently installed apps. Tick those you wish to remove and click **Search**. Deleting programs through *AppCleaner* ensures a large number of related files are deleted, along with the application itself.

07 FIND SLIMMER APPS

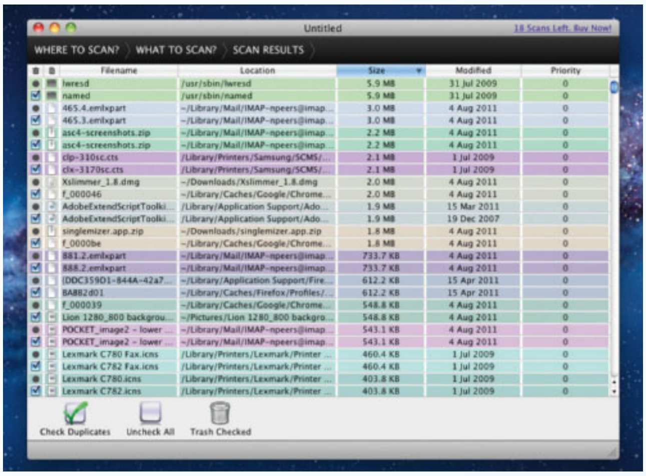
With the help of a site like http://alternativeto.net it's also possible to source alternative applications that take up less drive space than the applications you're using. Take *Adobe Reader* for example – why install an app that takes up 450MB of drive space when you can get most of its functionality in *Skim*, which takes a up a trifling 13MB, instead? Download it from http://skim-app.sourceforge.net.

08 CLEAR OUT BROWSER

Your web browser can build up a significant amount of clutter over time too. All browsers make use of a cache, a special folder where material from websites is downloaded to speed up future browsing of the pages in question. Technically there's no limit to how big these grow, so if you don't empty it regularly, it can soon start taking up lots of drive space. Thankfully, erasing the cache is a simple process. *Safari* users can select Safari > Empty Cache, while *Chrome* users should select Chrome > Clear Browsing Data, tick **Empty the cache** and click **Clear Browsing Data** again. Other browsers – like *Firefox* and *Opera* – work in a similar way.

09 CLEAN UP AFTER ILIFE

It's safe to say that media files – photos, videos and music – take up the most space on someone's hard disk. Before you turn the page and discover how to safely move these to another drive to free up space, start by emptying the Trash in both *iPhoto* and *iMovie* – any files deleted in the application go here rather than the actual Trash folder, so expect to free up a large amount of drive space. You can streamline things further by rebuilding databases – hold down ⌥+⌘ as you double-click the app icon to do so. Tick **Reclaim unused disk space from databases** to free up some extra space.



Duplicate files are unnecessary and wasteful. Root them out with Singlemizer.

10 TAKE THE LAZY OPTION

If all of this sounds like too much hard work, try an all-in-one tool like *MacCleanse* (£5.49, Mac App Store) instead. This will clean out everything you need from within a single app, but be warned: it's possible to make a Mac unbootable if you go too far. Back up before you begin, just in case your cleaning proves to be overzealous. You'll find a 15-day trial on your disc.

QUICK TIP

Want to peek inside a zip file without having to extract all of its contents first? Download and install the free *Zipeg* tool (**www.zipeg.com**). Not only does it enable you to see what's inside a zip archive, it lets you extract individual files too.

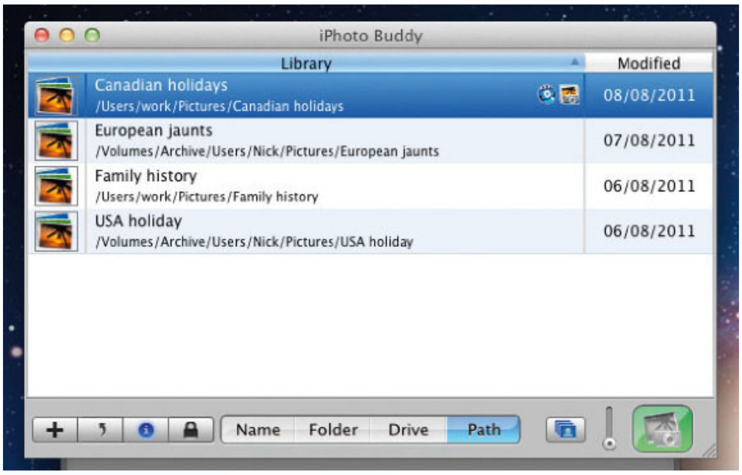
Long-term solutions

You've cleared a bit of space, but now it's time to sort things out permanently

>> QUICK TIP

Should the need arise, you can easily move selected media files back to your system drive and update the *iTunes* library using *TuneSpan*. Simply open the application and click **Restore** to choose which tracks you want to send back.

Hopefully you've now cleared enough space from your drive to help resolve any low disk space messages you've been getting, and to ensure your drive has at least 10% free space. That's great in the short term, but unless you consider some more permanent solutions, the same problems will reappear. The simplest thing to do is to move as much of your data as you can to an external hard drive. If you're in the market for a new drive, see opposite for three recommended solutions depending on your needs.



Library	Modified
Canadian holidays /Users/work/Pictures/Canadian holidays	08/08/2011
European jaunts /Volumes/Archive/Users/Nick/Pictures/European jaunts	07/08/2011
Family history /Users/work/Pictures/Family history	06/08/2011
USA holiday /Volumes/Archive/Users/Nick/Pictures/USA holiday	06/08/2011

Split an unwieldy iPhoto library into smaller libraries with the help of iPhoto Buddy.

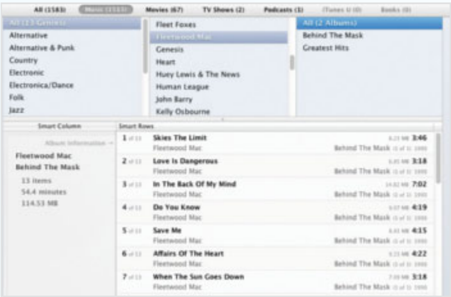
Network drives

Network drives act as a central repository for all of your networked computers' spare files, but don't work with all files (such as *iMovie* Events). Performance will also depend on the speed of your network – use wired or HomePlug connections as opposed to wireless where possible. Most of your data will be stored inside your Home folder, which resides inside the Users folder on your system drive. By moving some or all of the data inside this folder to your external drive, you'll free up a significant amount of space depending on how many photos, videos and other large files you possess.

The obvious solution is simply to move your entire Home folder to your external drive. While it's technically possible, it's both fiddly and potentially dangerous. If you move the Home folder, then your external drive must always be attached or connected in order for you to log into your account when your Mac starts. If the drive is lost or damaged, you'd be locked out of your profile or – if you're the only user of your Mac – your entire computer. A safer, better solution is simply to move enough files to free up a comfortable amount of space.

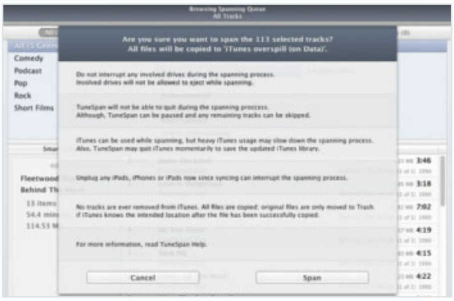
Which files should you move? The obvious answer is the largest ones, but you also need to consider convenience: will your external drive always be plugged into your Mac? If you're a MacBook user, you may not want to be tied to even the slimmest

>> HOW TO / Span your iTunes folder across multiple drives



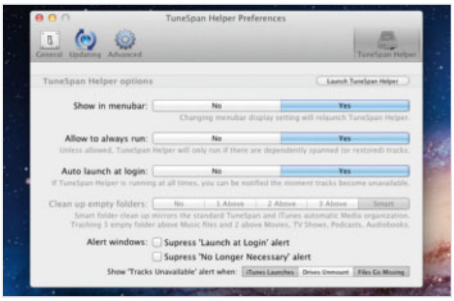
01 Pick tracks to move

Install *TuneSpan* from the disc and launch it. Select an external drive as the location to span selected *iTunes* content to. Then drag and drop tracks, albums or the entire output for a selected artist to the grey bar near the bottom of the screen. The bar shows the space freed.



02 Start Spanning process

Once enough space is freed, press ⌘+B to review the items you've added to your queue (press again to return). When ready, click the Span button. Read the warning before clicking Span again – you'll need to manually update the iTunes library for any missing tracks.



03 Spanning in practice

When the drive isn't present, *TuneSpan* can remind you of what tracks are unavailable in *iTunes*: select TuneSpan > Preferences > TuneSpan Helper and set both Allow to always run and Auto launch at login to Yes. Close and reopen *TuneSpan*: click Allow. ●

»HOW TO / Choose an external hard drive

Portable: Seagate GoFlex Slim

£66 www.scan.co.uk

As the name suggests, the GoFlex is slim. Boasting 320GB capacity, its other clever twist is the fact that the built-in USB 3.0 interface is housed in a removable cap, which can be traded for FireWire 800 with the promise of Thunderbolt to come (offering a theoretical 10Gbps throughput). Although the drive is NTFS-formatted, it comes with a software driver that enables you to use it with your Mac. A sleek, minimalist choice for your capacity needs.

Desktop: Iomega eGo Mac Edition

£102-£128 www.iomega.com

The Iomega is one of the fastest and most versatile desktop external drives there is, with USB 2.0 and FireWire 400/800 both covered, ensuring it'll work with any Mac. While it's not a drive for carrying around under your arm, you get a hefty 1TB or 2TB storage for your outlay, which should satisfy even the most demanding user.

Network: Buffalo LinkStation Pro

£122 www.ebuyer.com

This 1TB drive should have enough spare capacity to serve as an external drive for everyone on your network, and supports *Time Machine* backups too. It's fast, dependable and perfect for streaming media throughout your home, which makes it the perfect location for the movies and music cluttering up your system drive at present.

external drive in order to access your files. So it makes sense to ensure those files you can't do without are always accessible on your Mac's system drive, while less essential files are moved to external drives.

Span your media

Which files you decide to keep and which ones you move across ultimately depends on your personal preferences, but you'll probably find it's practical to leave the contents of your **Documents** folder where it is, while any files you've kept in the **Downloads** folder can be safely moved across to your external drive.

Where things may get tricky is with your media files – you may find yourself wanting permanent access to certain movies, photos or music, while others can be safely stashed away on your external drive.

When it comes to the contents of your *iTunes* library, your music, movies, podcasts and TV shows, you have two choices. To move the entire library across to your external drive, follow the step-by-step guide on page 65 of *MF236*. If you'd like to split the library between your system drive and your external drive so that favourite tracks are always available, it's possible to span your collection across two or more disks without messing up your *iTunes* library. To do this, install a free program called *TuneSpan* from the disc. The step-by-step guide opposite reveals all you need to know about using it.

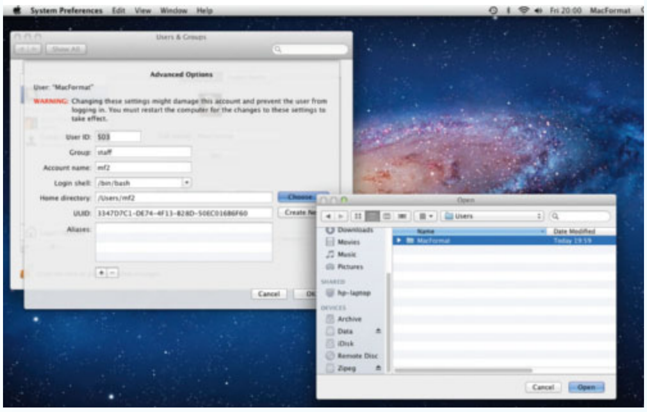
When it comes to your *iMovie* video collection, it's possible to move selected movies from your **Event Library** to your external drive. Fire up *iMovie*, then click the drive icon next to **Event Library** to see all available drives. Now ⌘-click on those Events you wish to move to select them. Finally, hold ⌘ as you click and drag the Events to your external drive to move them to that drive and update *iMovie*'s references. They'll remain in the library, but will only be accessible when your external drive is connected and switched on.

Manage iPhoto library

You're probably aware just how large your **iPhoto Library** file is (you'll find it in your **Pictures** folder). It's quite unwieldy, but what can you do about it? *iPhoto* supports multiple libraries, so one solution is to create different libraries for different groups of photos, allowing you to move some libraries to your external drive while keeping others to hand on your system drive. Use *iPhoto Buddy* (free and on the disc) to help manage and switch between multiple libraries in *iPhoto* quickly and easily.

It's also possible to keep the size of your new *iPhoto* library down. Before importing any photos, choose iPhoto > Preferences > Advanced tab, then untick **Copy items to the iPhoto library**. This prevents the photos being duplicated in your library unless you subsequently edit them (they're then duplicated into the library to protect the originals). That's all well and good if you're just starting out with *iPhoto*, but if you've got a massive library already in place, packed full of photos you've already edited, what then? One solution is to right-click the **iPhoto Library** file and choose **Duplicate** to create an exact copy. Rename it according to the subset of photos you wish to include (for example, 'Family holiday 2011') and then use *iPhoto Buddy* to open it in *iPhoto*. Remove all the photos and folders apart from your family holiday snaps (remember to empty the *iPhoto* Trash) and then marvel at this slimmer library.

Simply repeat the process for each new library you wish to create. When you're finished, delete the original library. You can now split the remaining libraries between your system hard drive and your data drive accordingly.



User: "MacFormat"

WARNING: Changing these settings might damage this account and prevent the user from logging in. You must restart the computer for the changes to these settings to take effect.

User ID: 503
Group: staff
Account name: mf2
Login shell: /bin/bash
Home directory: /Users/mf2
UUID: 3347D7C1-DE74-4F13-828D-50EC01686F60
Aliases:

We don't recommended moving the entire Home folder to your external drive.

»QUICK TIP

You only need to duplicate an existing *iPhoto* library for splitting purposes when you've either edited or catalogued photos within *iPhoto* itself. If you've simply imported folders, it's quicker to ditch the original library and start from scratch.

Upgrade your hard drive

Replace your Mac's drive with a bigger, faster model

» QUICK TIP

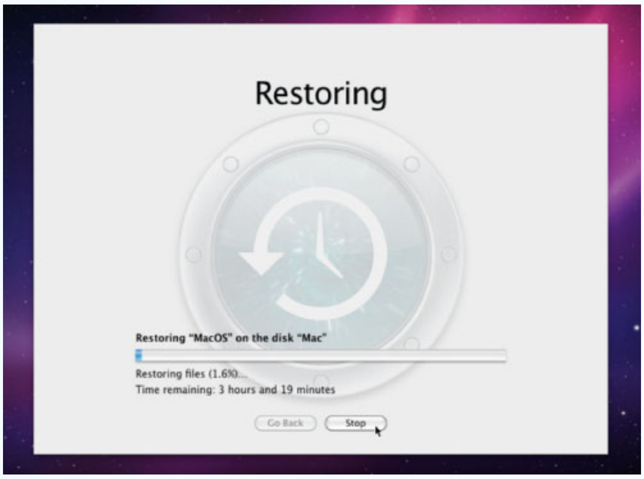
If your Mac has a Thunderbolt port, another alternative to upgrading your hard drive is to wait for Thunderbolt drives to make an appearance. You will be able to boot from these hard disks, allowing you to use them as your primary drive.

Ultimately you might decide it's not convenient – particularly if you're a MacBook user – to store your data on a separate external drive to your Mac. If you want to keep everything on a single drive, your final option is to upgrade the drive inside your Mac with a bigger model.

The first question to ask is whether or not it's something you can do yourself. Macs aren't equal, and some models are easier to upgrade than others. The benefits of upgrading yourself are typically that you get to choose the exact drive you want at a price that's cheaper than paying someone to do the upgrade for you. The downside is that you'll invalidate any warranty you have and could look to face a hefty repair bill if something goes wrong.

If the idea of upgrading doesn't put you off, you need to discover if your Mac is one of those models that can be upgraded, or upgraded without recourse to an Apple Service Provider. As a rule of thumb, Mac Pros and later MacBooks (MacBook Air not included) are the simplest to upgrade, Mac minis are considered somewhat difficult, while iMacs are – to all intents and purposes – impossible.

To see the process you'll need to follow to upgrade your Mac's hard drive by yourself, visit http://eshop.macsales.com/installvideos for a series of instructional videos. If your model isn't listed, or you don't like what you see, it may need to be upgraded by your local Apple Store or Service Provider. If they can help, you'll be tied into their choice of drive and will have to pay an additional premium for fitting.



Restoring

Restoring "MacOS" on the disk "Mac"

Restoring files (1.6%)...

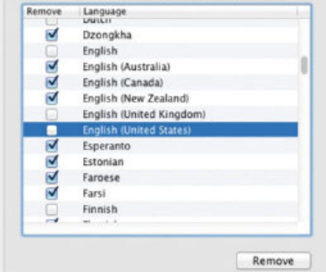
Time remaining: 3 hours and 19 minutes

Keeping a backup means you can delete more files with a clear conscience.

» HOW TO / Save even more space

If you really want to push the envelope when it comes to reclaiming lost space, try these tips. Start by browsing your Mac's Library folder for files you can safely remove: look in **Printers**, **Widgets** and **Screen Savers** for starters. Visit **System\Library\Speech\Voices** too. Removing the Alex entry will reclaim 400MB of space.

Your Mac comes with dozens of languages pre-installed, most of which you'll never use. Delete these to free up hundreds of megabytes of space for free using the *Monolingual* app, which you'll find on the disc. There's an excellent guide at **www.jklstudios.com/misc/monolingual.html**, which you should read before using it.



Select the items you wish to remove:

Remove	Language
☑	Dzongkha
☐	English
☑	English (Australia)
☑	English (Canada)
☑	English (New Zealand)
☐	English (United Kingdom)
☐	English (United States)
☑	Esperanto
☑	Estonian
☑	Faroese
☑	Farsi
☐	Finnish

Remove unused languages and free up hundreds of megabytes of space.

Use the *Font Book* app to manage the fonts installed on your computer, removing those you no longer need. Start by validating your fonts to remove those that have problems, then carefully work your way through the rest. We suggest exporting fonts to your backup drive before removing them – just in case they're needed.

Pick the right hard drive

It's important you pick the right type of hard drive for your Mac: that means SATA rather than IDE for all Macs since 2006. The other key consideration is that you pick the right size drive for your Mac – 2.5-inch for MacBooks, MacBook Pros and Mac Minis, and 3.5-inch for Mac Pros. MacBook Airs don't use standard SATA drives – we cover this separately below.

You then need to choose between a traditional hard drive (HDD) or the newer, much faster solid-state drive (SSD). SSDs are unbelievably quick compared to their sloth-like rivals, consume less power and are silent in operation, which makes them a perfect fit for MacBooks. But all of these benefits come with a hefty premium attached.

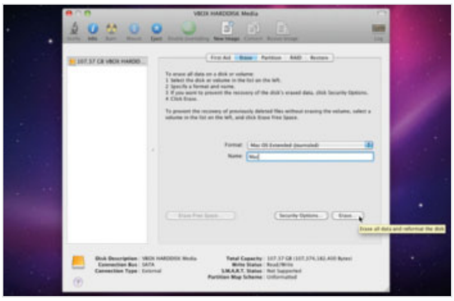
The sad, unpalatable fact is that a 64GB SSD will cost you the same as a 2.5-inch 750MB or 3.5-inch 2TB HDD (around £90-100). You'll get a major performance boost, but you won't solve your disk space problem (although check out the quick tip for one possible workaround).

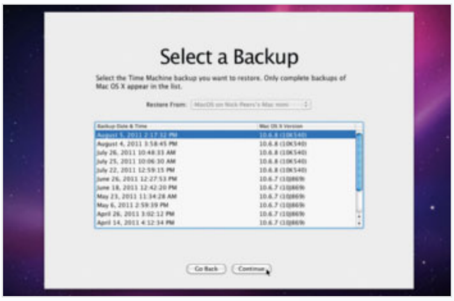
There is a third way in the form of a 2.5-inch hybrid drive from Seagate. As its name suggests, the MomentusXT Hybrid combines traditional HDD storage with a tiny amount of SSD (4GB). Thanks to the drive's adaptive technology, your most frequently accessed files are placed on the SSD portion of the drive, which helps provide a notable performance improvement with reading (but not writing) files.

It's a lot less expensive at £80 for 500GB (www.dabs.com), but it's not all good news, particularly for MacBook owners. That's because the drive can cause some vibration and actually consumes more power than a traditional HDD drive.

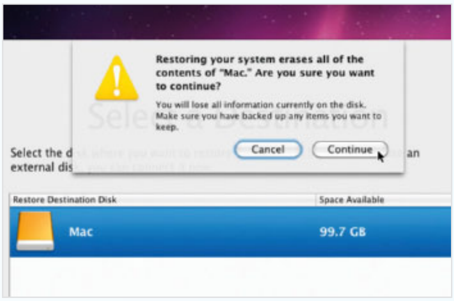
Whatever type and size of drive you decide to purchase, there are some

»HOW TO / Restore your Time Machine backup




Select a Backup

Select the Time Machine backup you want to restore. Only complete backups of Mac OS X appear in the list.


Restoring your system erases all of the contents of "Mac." Are you sure you want to continue?

You will lose all information currently on the disk. Make sure you have backed up any items you want to keep.

01 Prepare new drive

Open the **Utilities** menu and select *Disk Utility*. Click your drive, then either choose **Partition**, or **Erase** to set it up as a single drive. If selecting **Erase**, give the drive a name and click **Erase** again. Once the process is complete close *Disk Utility* to return to the main menu.

02 Select a backup

From the main screen either click **Restore from Time Machine Backup** (Lion) or select the option from the **Utilities** menu (Snow Leopard). Click **Continue** for it to detect your drive. Select the one with your backup and click **Continue** to view a list of available backups.

03 Select destination

Pick the latest backup from the list and click **Continue**. Select your new drive from the list and click **Restore** followed by **Continue**. Your last backup will now be restored to your new drive. Once done, restart your Mac and it should take you to your desktop. ●

other considerations to make that will have an effect on the performance of your new drive. All 2011 Mac models utilise the newer SATA-600 (6Gbp/s) standard, so opt for a SATA-600 model over the older SATA-300 model if possible.

Other considerations

If you're buying a HDD, also look to replace your drive with a 7,200rpm model for maximum performance, although be aware this will generate more heat and consume more power than a slower 5,400rpm model. Also, look at the size of the onboard cache – a drive offering 32MB or even 64MB will outperform one offering 8MB.

If all of this sounds like too much hard work, we've dug out a few models that tick all the right boxes depending on your Mac. If SSD floats your boat, and you can afford the hefty premium, the Crucial 128GB m4 SATA-600 (£170, **www.dabs.com**) is worth considering. Mac Pro users will need a special adaptor, such as Icy Dock's MB-882SP (£12, **www.scan.co.uk**) to fit it.

> *"If you're buying a HDD, look to replace your drive with a 7,200rpm model for best performance"*

Mac Pro users get the best deal in terms of value and capacity thanks to the fact that 3.5-inch drives are cheaper and more versatile than 2.5-inch models. 2TB drives are now widely available, and Hitachi's Deskstar 7K3000 ticks all the right boxes in terms of performance: 7,200rpm, SATA-600, 64MB cache. Expect to pay around £75 (see what's on offer at **www.scan.co.uk**).

1TB models are starting to make an appearance on 2.5-inch drives, but SATA-600 models are still a rarity, and come with a hefty price premium (expect to pay around £150 for a 1TB model). If you can live with the slower SATA-300 standard, however, look at Western Digital's Scorpio Black range, one of the few to offer 7,200rpm and 16MB (as opposed to a measly 8MB) cache on its mobile drives. Its 750GB model costs around £73 (see **www.ebuyer.com** for some options).

MacBook Air

As we hinted earlier, if you're looking to upgrade your MacBook Air's internal storage, it's a different kettle of fish altogether. The 2010 and 2011 models both utilise SSD storage with mini-SATA connectors, so you'll need a special drive if you want to go down this route, and with a hefty premium to pay (as much as €1,400 for the Aura Pro Express 480GB from **www.macupgrades.eu**) it's something you might want to reconsider.

SATA II 2.5" SOLID STATE

Fitting your own hard drive upgrade will save you money, but could be tricky.

Fitting your new drive

If you're upgrading your drive yourself, make sure you take one last *Time Machine* backup before you swap out your old drive for your new one. Once the new drive has been fitted, switch on your Mac. Lion users should see pages 68 and 69 on how to create a boot drive or disk; Snow Leopard users should insert their OS X install disc and hold down the C key. Then it's a simple a case of following the step-by-step guide above to restore your latest backup to your new drive using *Time Machine*.

Once done, you'll be booted back into OS X as if nothing had happened, except now you'll be able to take advantage of the extra speed and larger size of your new hard drive. ●

»QUICK TIP

Rather than bin or recycle your old drive when you replace it, why not fit it into an external drive enclosure instead? This will allow you to use it for additional storage or as a secondary backup device.

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Where to buy your next Mac

If you're looking to buy a new Mac in time for the school or university term then there's no better place to buy it than from John Lewis

We all know that Apple products inspire creativity; and there really is no better computer to ensure your success in work, education or home use than an Apple Mac, or a better place to buy one than John Lewis. Apple's newly revamped line-up has everything you need inside a case that is both stylish, durable and designed to perfection. But it's not just about the design of the computer itself, it's also about the software that comes with it. With the combination of OS X and *iLife '11* pre-installed on every Mac, you have easy access to everything you need to make your projects really stand out from the crowd. You can create multimedia slideshows in *iPhoto*, for example, and even turn your field trips into gorgeous photo books that will give your projects the edge. With *iMovie* you can turn a few hastily shot pieces of video into incredibly professional-looking movies that will take your course work to the next level. And there's also *GarageBand*, which turns any Mac into a full-featured recording studio. It's all included and it's all about being creative, and your Mac will help you achieve what you want.

Macs also run Apple's amazing *iWork* suite, which includes *Pages*, a stylish word processor, *Keynote* for presentations, and *Numbers* – a great spreadsheet application. These three apps will have everything you need for turning in great-looking essays, delivering heart-stopping presentations and producing supporting documentation in the form of graphs and charts, all at a bargain price that is way cheaper than traditional office software.

We're sure we don't need to oversell you the benefits of getting a Mac; the only question is, where should you buy one? You have several different options to consider, but we think that John Lewis should be your number one destination. For a start, John Lewis is the only retailer that offers you a free two-year guarantee. This is a whole year more than the

>> NEW KIT / Visit a John Lewis store today to try out the full range of Macs

Apple iMac

82702329 / From £999

The perfect Mac for use in the home, the iMac is an all-in-one that's one of a kind. This 21.5-inch model features a full HD LED-backlit display that offers remarkable brightness. Movies, TV shows, websites, and photos all look stunning. It also sports a powerful 2.5GHz quad-core Core i5 processor.

Apple MacBook Pro

82712333 / From £999

The MacBook Pro is for serious performance on the go. Constructed from one piece of solid aluminium, the unique 'unibody' design is ultra-thin, beautifully streamlined, and durable. Get ready for pure typing bliss – the MacBook keyboard is solid, responsive and comfortable.

MacBook Air

82712329 / From £867

Nearly as thin as your finger but with an 11.6-inch widescreen display, the new MacBook Air is designed around flash storage for responsiveness and reliability. It offers a full-size keyboard and a large multi-touch trackpad. You'll also enjoy up to five hours of battery life from a single charge.

HP Photosmart Premium Wireless e-All-In-One Printer

89500332 / £179

You'll need a great printer to make sure your photo prints look stunning. This HP connects wirelessly, has a memory card reader and supports double-sided printing. It's also AirPrint compatible so can print from an iPad.

John Lewis has all the latest models in store for you to try out.

standard Apple Care, which requires that you pay more if you want to extend it further. This is a real benefit to consider when making your purchase. And don't forget that unlike many of today's online retailers, John Lewis has actual brick-and-mortar stores, often in locations which don't have an Apple Store. You can visit John Lewis to get hands-on with Apple products and chat to knowledgeable staff. They will be on hand with expert, impartial advice to help you choose the perfect Mac for your needs.

You can also be assured you're getting a good deal, thanks to John Lewis' Never Knowingly Undersold promise, which means it won't be beaten on price, quality or service. Never Knowingly Undersold also means that if you see or buy a product online or find it cheaper with a high street competitor (whether or not they also sell online), as long as their service conditions are comparable, then John Lewis will match that price for you or refund the difference*.

> *"John Lewis is the only retailer to give you a full two-year guarantee as standard. That's a real benefit"*

And you're not left on your own once you've made your purchase either. You'll also get free access to a 90-day helpline for reassurance. If anything goes wrong then John Lewis will be there to help.

Once you've made your decision about which Mac to get you'll probably want to get some accessories to go with it. There are so many great add-ons you can get for a Mac these days (just take a look at the box below for some ideas!) and John Lewis has everything you need right there in store for you to take your pick from. There's also a huge selection of accessories available online at **www.johnlewis.com**. In fact, why not fire up your web browser and take a look right now?

Get started today!

There are three ways to get started with John Lewis: online you can visit **www.johnlewis.com** which has buyers' guides for ease of shopping. Alternatively you can go into a shop to speak to someone and get more advice. Finally you can shop on your mobile – visit **www.johnlewis.com** on your smartphone and you'll get a special mobile version of the site that makes it easy to use.

*Our commitment to value means that we match the prices of high street competitors (this excludes online-only or mail order businesses). Service conditions must be comparable. See our 'Never Knowingly Undersold' leaflet in our shops or online for details.

» ACCESSORIES / John Lewis has a great range of Mac accessories on offer

Incase 17" Pebble & Aqua Sling Sleeve

70461503 / £49.95

A sleeve with shoulder strap and front pockets for up to 17-inch MacBook Pro. Constructed using durable weather-resistant nylon, this sleeve offers premium protection for your laptop while remaining unobtrusive, thanks to a slender design. The nylon handles can be concealed for convenience.

Orla Kiely 15" Multi Stem MacBook Sleeve

70461104 / £65

For up to 15" MacBook Pro, this sleeve with its iconic pattern design means you'll look great wherever you go. Constructed from matt laminate, the shoulder bag features an internal padded pocket that will ensure your laptop remains scratch-free. A patch pocket stores your mobile phone too.

InCase 13" Sleeve Blue/ Corn Flower

70461505 / £35

Protect your Mac from bumps and scratches, with the great neoprene cover from InCase. For 13" MacBook Pro and MacBook, this stylish sleeve comes with faux fur lining for a snug fit. There are no straps to get in the way, so it pops straight in your carry bag. Also available in pink and grey.

SeeThru Clear for Mac 13"

70470904 / £39.95

This is a great way of protecting your new Mac while still keeping it looking like... a Mac! This one is for the 13-inch MacBook Pro, but there's also one available for the 15-inch model. It has a smooth semi-translucent finish with a 'grippy' edge, and yes, you can still see the Apple logo glow once it has been fitted!

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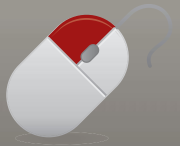

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"Apple's web browser has recently seen a raft of improvements and tweaks"

DISCOVER SAFARI'S NEW FEATURES P66

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How to...

● PHOTOS ● MOVIES ● MUSIC ● OFFICE ● SYSTEM

Rob Mead-Green
Deputy Editor

Every new version of the Mac OS introduces hundreds of features and interface changes that are both fun and challenging to get to grips with – that's especially true of OS X 10.7 Lion.

Some of the biggest changes can be found in *Mail*, which has a brand new look and feel – you can find out how it works on page 64. Going hand-in-hand with *Mail* are a bunch of new features for *Safari 5.1*, including a Reading List for web pages and improved privacy options (page 66).

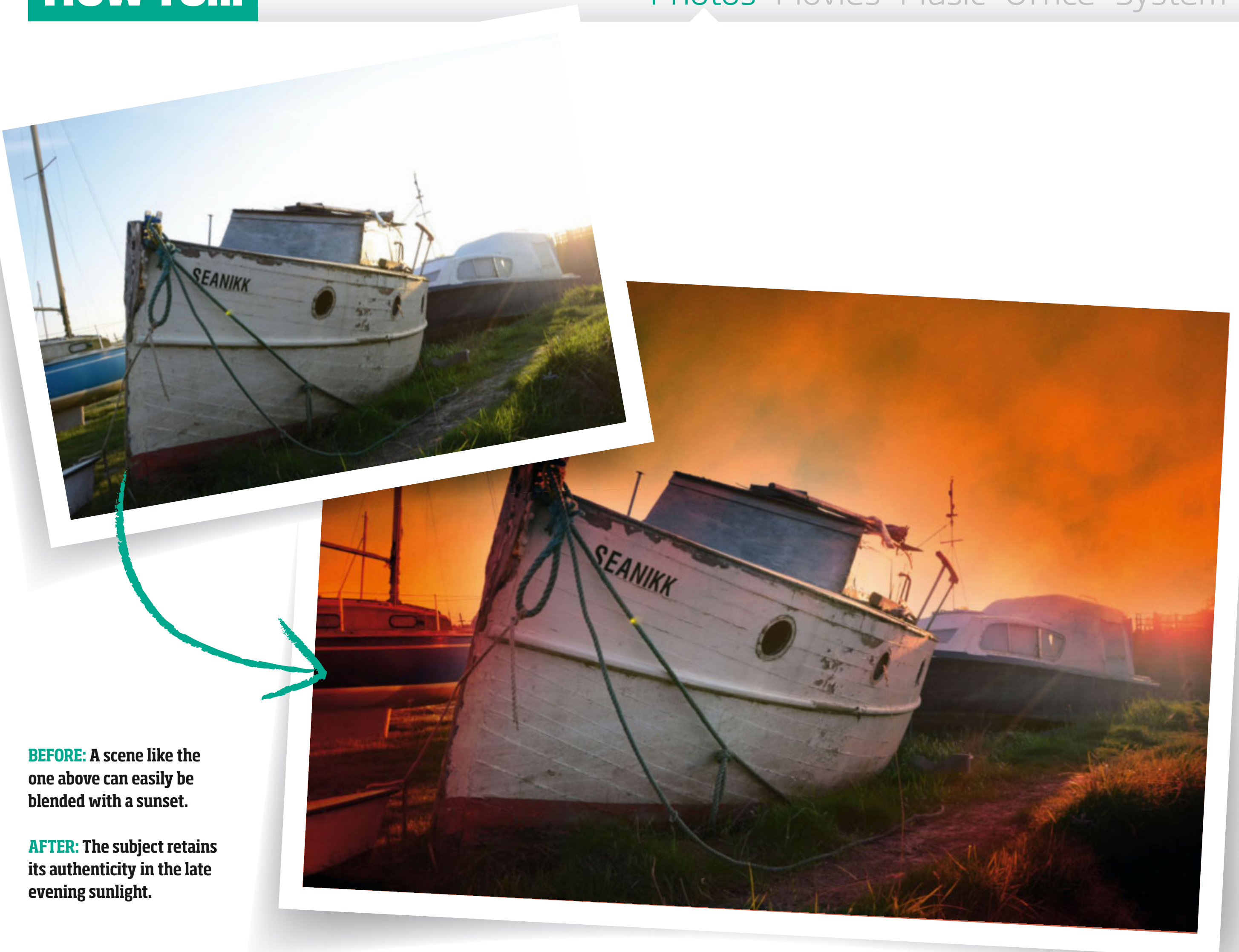
We'll also show you how to bring Snow Leopard-style sense to Lion's few interface quirks with our guide on page 58. Other goodies worth seeking out include two tutorials on creating special photo effects in *Photoshop* (page 46) and *iPhoto* (page 48), plus tips on achieving a varispeed film effect in *iMovie* (page 50).

You can even find out how to be more productive (page 54) – something we're sure will come in handy no matter which version of Mac OS you use.

If there are any top tutorials that you'd like to see in *MacFormat*, please drop me an email (**rob.mead-green@futurenet.com**). I look forward to hearing from you.

» DID YOU KNOW?

To capture your signature via iSight, write it in black on a white piece of paper then go to Preview > Preferences > Signatures and follow the instructions. (Lion only.)



BEFORE: A scene like the one above can easily be blended with a sunset.

AFTER: The subject retains its authenticity in the late evening sunlight.

Create a sunset effect

Turn a dull-looking landscape into a rich and vibrant image – the easy way

» KEY INFO

DIFFICULTY
Intermediate

TIME NEEDED
30 minutes

WHAT YOU'LL NEED
Adobe Photoshop or Elements

When you're out walking and you have a camera, it's always worth looking out for interesting skies, because you never know when they might come in useful. You don't have to snap loads – a single sky can often be used to enhance lots of different images.

This is what's been done here to transform a dull-looking landscape, creating a vivid sunset effect that's quite easy to achieve. Usually when you blend in a new sky, your first thought might be how to create the right kind of selection, especially if you've got a complicated horizon with tricky tree lines, for example.

This method is much cruder, but also very effective. It uses blend modes rather than selections to combine the sky with the landscape, and a gradient mask to highlight the subject. This method does mean that the clouds in the sky layer can be visible when they're overlaid on the darker foreground, but this can often add to the misty, moody effect.

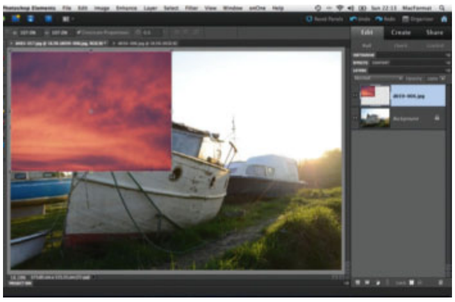
The advantage of using a layer mask is that you can manually dab on the mask with a brush set to black, white or shades of grey to control the visibility of the sky layer.

> *"You don't have to snap loads – a single sky can often be used to enhance lots of different images"*

If you're using *Elements* prior to version 9, you can't add layer masks to layers directly, but there is a workaround. First, create an adjustment layer below the layer you want to mask – but don't make any adjustments. Now ⌥-click between these two layers in the **Layers** panel to 'clip' the top layer to the adjustment layer. The adjustment layer's mask will act as a mask for that top layer.

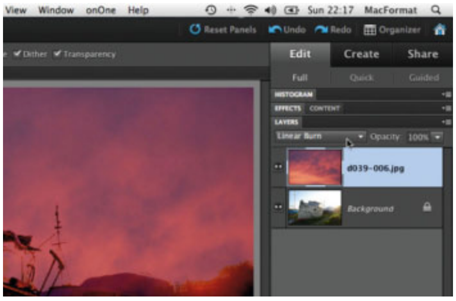
This 'clipping' process is used again in the walkthrough. You can use it to restrict an adjustment layer's effect to the layer it's clipped to, rather than all the layers below it. In this case, it's used to change the colour of the sky in a way that can easily be undone or modified later on.
Rod Lawton

HOW TO / Add sunset skies with blend modes and masks



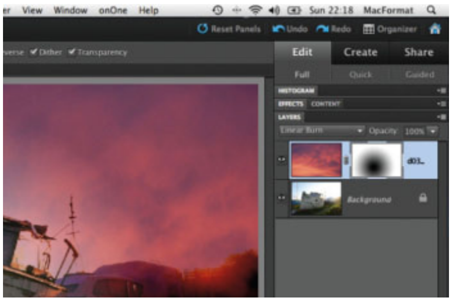
01 Resize your sky

Here, the 'sky' image has been added to the landscape shot as a new layer. It was taken using a lower-resolution camera, so it's smaller. That doesn't really matter since skies don't contain hard detail, so it's scaled up to match the size of the main image.



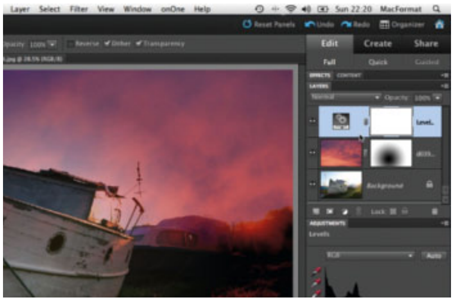
02 Change the blend mode

Initially, the 'sky' layer covers up the landscape on the layer below, but changing the sky layer's blend mode to Linear Burn blends both images in a dramatic way, superimposing the sky's colours on the landscape's. (If this effect is too strong, try Multiply mode instead.)



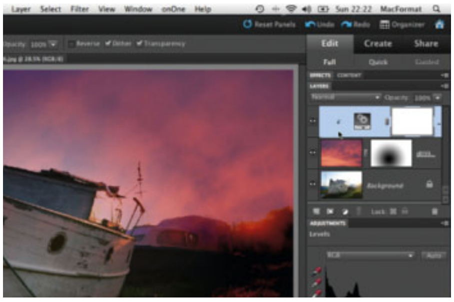
03 Selective masking

For the main subject (the boat here) to become the focal point of the picture, add a layer mask to the sky layer. Select the Gradient tool, set the gradient colours to black-white, choose the Radial gradient on the options bar and drag out from the centre of the subject.



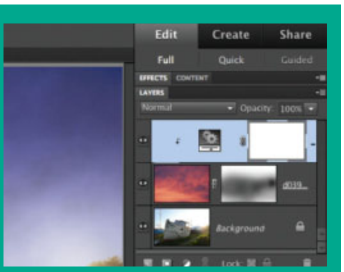
04 Adjust the sky layer

The gradient mask applied in the last step is pretty crude; improve it by painting on the mask layer to match the shape of your subject. Change the colours and tones of the sky with a levels adjustment layer, though this will affect the colours of both the layers…



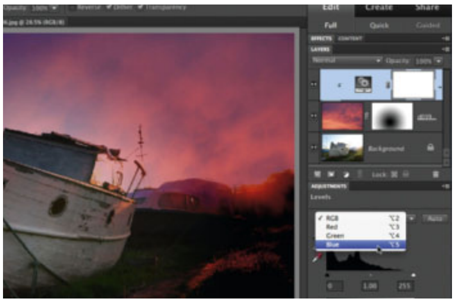
05 'Clipping' layers

…But you can solve this. Hold down the ⌥ key and move the mouse pointer between the layer and the adjustment layer. Click now, with the ⌥ still pressed, and the adjustment layer is 'clipped' to the layer below it – you'll also see it's now indented in the Layers palette.



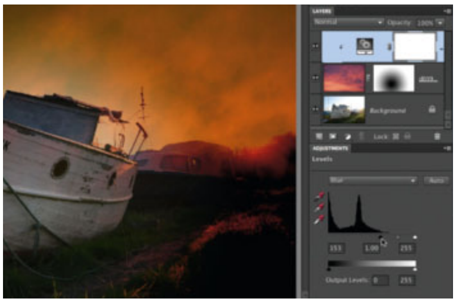
QUICK TIP

You can use the same 'sky' layer to create a gloomy dawn. Instead of a levels adjustment layer, use a **Hue/Saturation** layer. Leave the blend mode set to **Normal**, check the **Colorize** box and move the **Hue** slider to a deep blue tone.



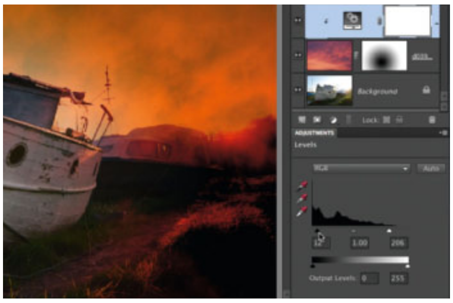
06 Sky colour adjustments

This adjustment layer will now only affect the sky layer below it. The landscape image underneath won't be altered. The sky is a little pink to be convincing; fix this with an adjustment to the blue channel only – selected from the drop-down menu on the Levels panel.



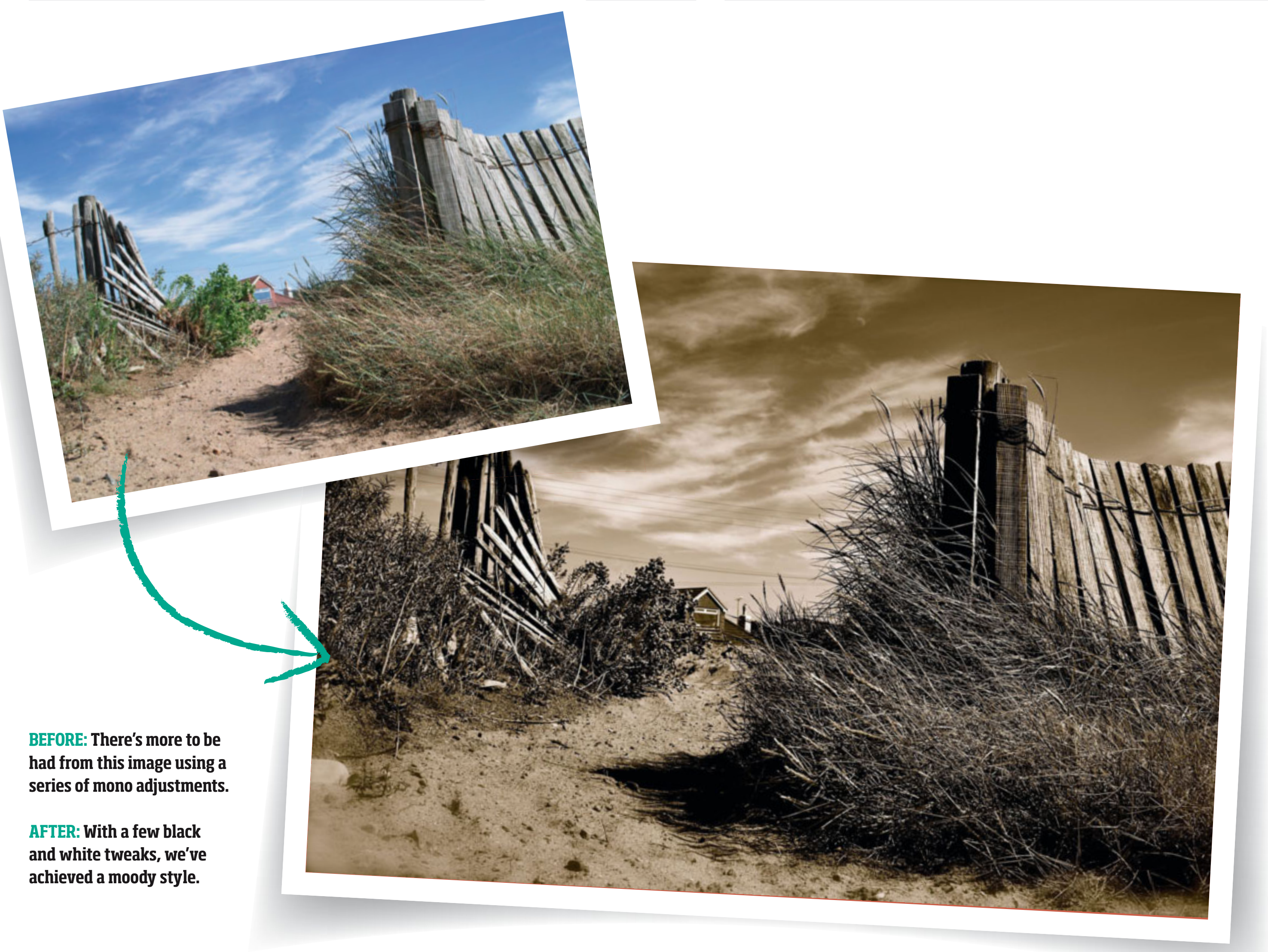
07 Adjust the blue channel

You don't have to be too subtle when making adjustments to individual channels in situations like these. Dragging the black point slider over to the right has sliced off most of the blue channel histogram here, but it's produced a much more realistic set of 'sunset' colours.



08 Final levels tweaks

All this can leave your sky looking dark and dense, so select RGB in the Levels panel and adjust the black and white point sliders. Don't worry about clipping the ends of the histogram – the way the sky is blended with the layer below disguises any loss of detail. ●



BEFORE: There's more to be had from this image using a series of mono adjustments.

AFTER: With a few black and white tweaks, we've achieved a moody style.

Create moody mono shots

Get great black and white effects with just a few simple adjustments

>> KEY INFO

DIFFICULTY: Intermediate

TIME NEEDED: 15 minutes

WHAT YOU'LL NEED: iPhoto '11 or later

Black and white is making a bit of a comeback, and you can create some surprisingly effective black and white images using the adjustment tools and effects in *iPhoto*. These might look a little basic at first, but the interaction between these two sets of controls is very interesting.

In most image editors, effects are applied once and irreversibly; in *iPhoto* they remain 'live' so that you can keep changing them as you go along. Some effects are simply 'on' or 'off', but others come in different strengths. Best of all, these effects act cumulatively, interacting with each other in ways which offer a lot more variety and control than you might expect.

The B&W effect is a good example. *iPhoto* doesn't let you change an image from colour to greyscale in the same way that *Photoshop* does, and your first instinct then might simply be to reduce the Saturation value to zero in the Adjust panel. This doesn't work, though, because it simply reduces colour rather than removing it. But using the B&W effect doesn't just produce a black and white conversion because the image retains its full colour data. You can use the Temperature and Tint sliders in the Adjust panel to modify the way different colours are converted into shades of grey.

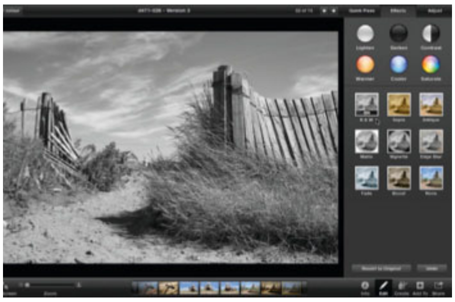
> *"You can create some effective black and white images using the adjustment tools and effects in iPhoto"*

In fact all the adjustment tools remain active. The Contrast slider can make black and white shots more intense and dramatic, while the Highlights and Shadows sliders give you some control over how the darker and lighter parts of the picture are reproduced.

It's the way the B&W effect interacts with the others that's most interesting, though. You can create black and white 'toning' effects, delivering more controllable results than the standard Sepia effect.

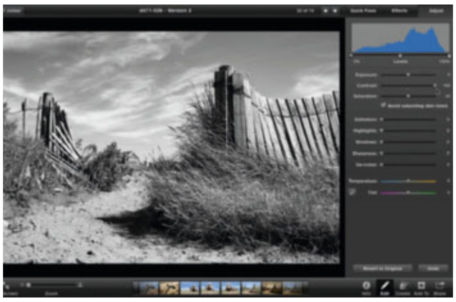
Rod Lawton

HOW TO / Handle black and white in iPhoto



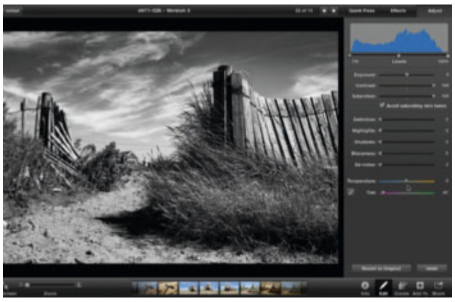
01 Apply the B&W effect

The **B&W** effect is either on or off, and it doesn't change the image itself, just its appearance (like a *Photoshop* adjustment layer). Whatever changes you make in the **Adjust** panel, the photo will still appear black and white as long as this effect remains applied.



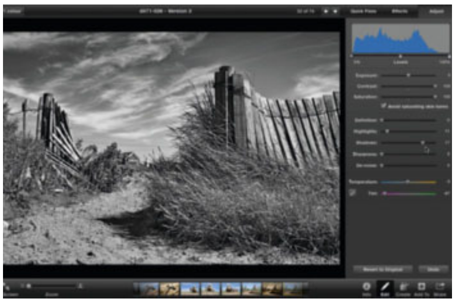
02 Adjust the contrast

Now switch to the **Adjust** panel to enhance the picture. The quickest way to add impact to any black and white shot is to boost the contrast. Just push the slider up to 100. *iPhoto* should increase contrast without clipping shadow or highlight detail, so it should be fine.



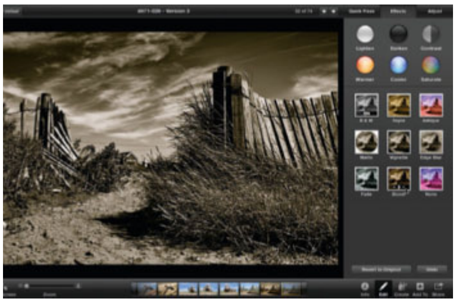
03 Temperature and Tint

Experiment with the colour balance. First, increase saturation to 100, then try the positions of the **Temperature** and **Tint** sliders to see how the tones in the picture change. Here, a big negative **Tint** value has darkened the blue sky without affecting all else.



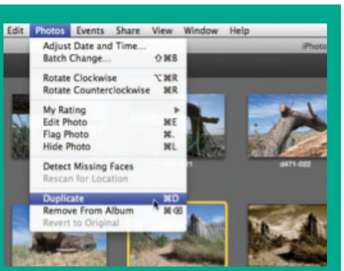
04 Highlights and Shadows

If you find the highlights start to burn out, or the shadows fill in, adjust the **Highlights** and **Shadows** sliders. These are effective at recovering lost details, but try to keep the adjustments small or you risk creating an artificial HDR-style 'glow' effect around objects.



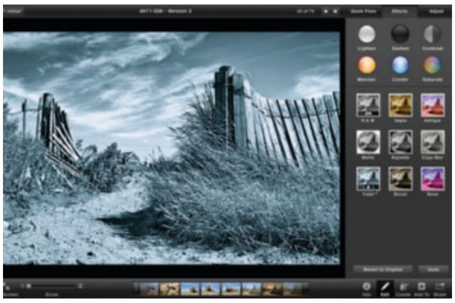
05 Use the Boost effect

Don't bother with the **Sepia** effect – it's pretty lurid and unsubtle. Instead, click the **Boost** effect. This increases the contrast and adds a warmer tone at the same time. Keep clicking to increase the strength of this effect; for this shot a setting of 5 is just about right.



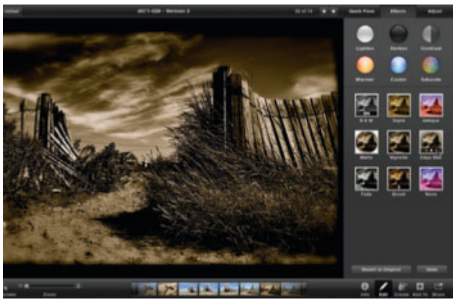
QUICK TIP

You can revert to your original colour photo if you want to. But it's better to create a copy (⌘+D) and work on that instead because you'll probably want to keep both the colour and the black and white versions of the picture.



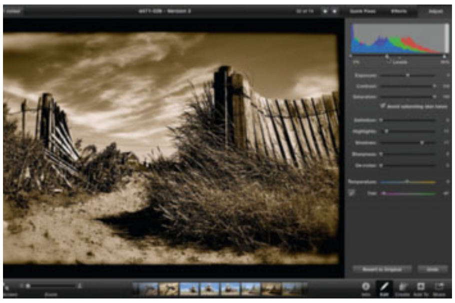
06 Use the Fade effect

The **Fade** effect makes photos a little paler and cooler in tone. You can use this to recreate an old-fashioned 'cyanotype' effect; again, keep clicking to increase its strength. Use the up/down buttons at the bottom of the effect icon to change the effect strength, too.



07 Edge Blur

iPhoto's **Vignette** and **Matte** effects are too coarse to be much use here, but the **Edge Blur** effect can create a nice retro look. This too can be applied at different strengths; it's not just the degree of blur you can control but the distance into the image that the blur extends.



08 Brightness adjustments

Applying a series of effects will often change the overall brightness of the picture, and in this case the **Boost** filter has made it a little too dark. This can be fixed in the **Adjust** panel by dragging the middle slider under the histogram to the left. ●

Change the speed of a clip

How do you incrementally change the speed of a video clip over time?

KEY INFO

DIFFICULTY
Beginner

TIME NEEDED
25 minutes

WHAT YOU'LL NEED
iMovie '11 version 9.0.4 or later, clips in an Event or your photo library, a basic understanding of the interface

Making a successful film, whether it's a big Hollywood blockbuster or a home movie, is all about timing. For action sequences with a lot of energy, you need quick, short clips. Longer shots are usually better suited for emotional scenes.

Even though *iMovie* is aimed at the casual filmmaker, you still have in your hands a powerful tool that is designed to offer you everything you need to edit fast and with precision. The fact that Apple has adopted the general interface for its new version of *Final Cut Pro* speaks volumes as to its belief that editing this way is easier than any other method invented, until now.

The philosophy behind this method is to offer you simple tools to get on with building your project, with more advanced features being available by clicking on a button, or by turning on an option for the more complex tools. One such advanced feature is the ability to alter the duration of your clips. This allows you to speed up or slow down the action and is a useful way to change the mood of your clip and project.

You can access this feature from the Inspector window's **Clip** tab, but it's somewhat limited in its capabilities since you can only apply a set speed to your clip. Looking at *Final Cut Pro X*, you would notice a similar tool, but in this case, you can easily alter the speed within your clip, slowing it down gradually for instance, or making it go faster and faster as it progresses.

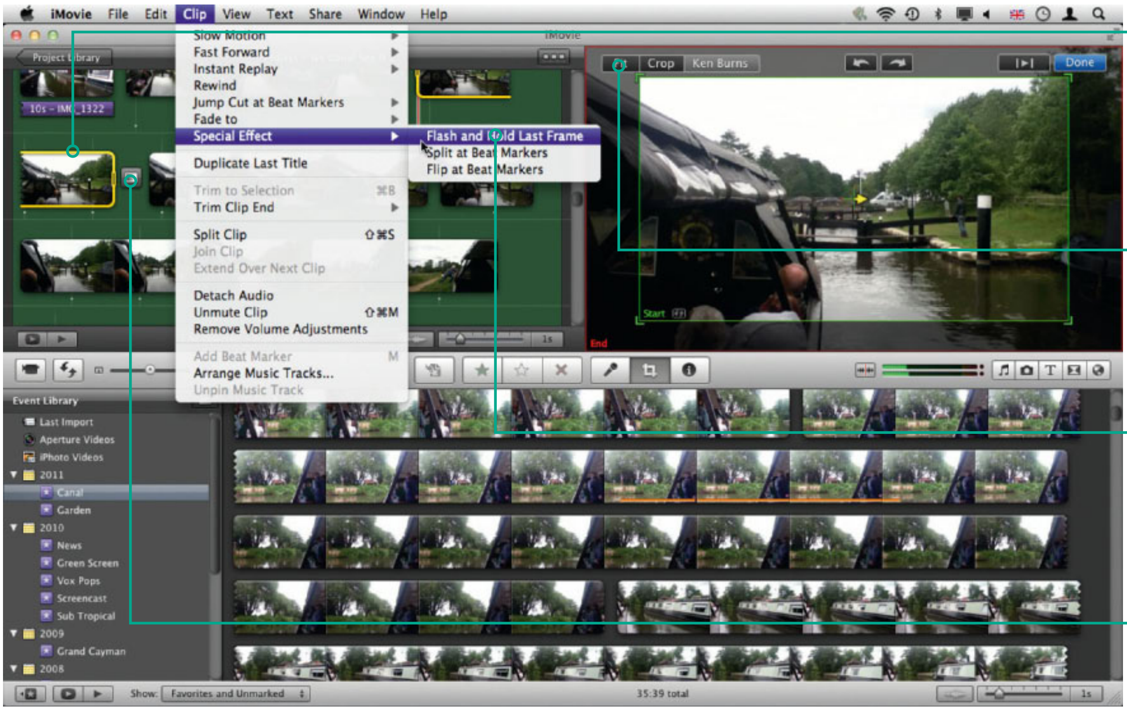
> *"An advanced feature is the ability to alter the duration of clips, so you can speed up or slow down action"*

You'd expect *iMovie* to lack many tools that its bigger brother has, but since spending £200 on a program just to gradually speed up a clip isn't an option for nearly all of us, you'll be glad to know that there's a workaround in *iMovie* that replicates this effect. Obviously, this solution isn't as seamless, but it works and is easy to achieve. We'll show you how to do this, teaching you a keyboard shortcut along the way, which will greatly speed up the process.

You'll need a project to follow the tutorial. You can create a new one or use an existing work in progress. If you'd like to experiment without losing your original edit, select your project in the **Project Library** section then go to Edit > Duplicate Project, to make a copy of it.

Steve Paris

HOW TO / Create a still image out of a moving shot


iMovie File Edit Clip View Text Share Window Help
Slow Motion
Fast Forward
Instant Replay
Rewind
Jump Cut at Beat Markers
Fade to
Special Effect
Duplicate Last Title
Trim to Selection
Trim Clip End
Split Clip
Join Clip
Extend Over Next Clip
Detach Audio
Unmute Clip
Remove Volume Adjustments
Add Beat Marker
Arrange Music Tracks...
Unpin Music Track
Flash and Hold Last Frame
Split at Beat Markers
Flip at Beat Markers
Fit Crop Ken Burns
Done
Start
End
Project Library
Event Library
Last Import
Aperture Videos
iPhoto Videos
2011
Canal
Garden
2010
News
Green Screen
Vox Pops
Screencast
Sub Tropical
2009
Grand Cayman
2008
Show: Favorites and Unmarked
35:39 total

Frame Selection

Highlight part of a clip, making sure the last selected frame is the desired still image.

Scrub Ken Burns

Select the Crop tool to remove the Ken Burns effect. Then click **Fit**.

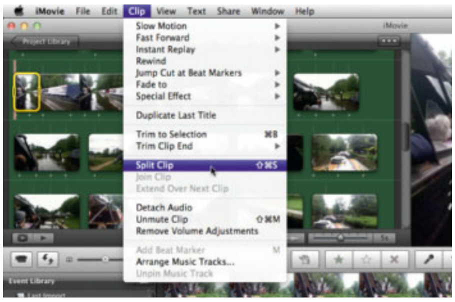
A Special Effect

There is no 'still frame' option. Select this from the **Clip** menu instead.

Transition

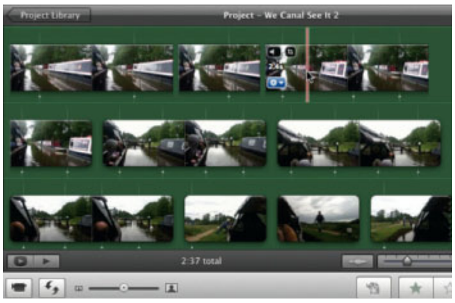
If you don't want the applied transition, select it and hit ⌫.

HOW TO / Gradually speed up a clip


iMovie
File
Edit
Clip
View
Text
Share
Window
Help
Slow Motion
Fast Forward
Instant Replay
Rewind
Jump Cut at Beat Markers
Fade to
Special Effect
Duplicate Last Title
Trim to Selection
Trim Clip End
Split Clip
Join Clip
Extend Over Next Clip
Detach Audio
Unmute Clip
Remove Volume Adjustments
Add Beat Marker
Arrange Music Tracks...
Unpin Music Track

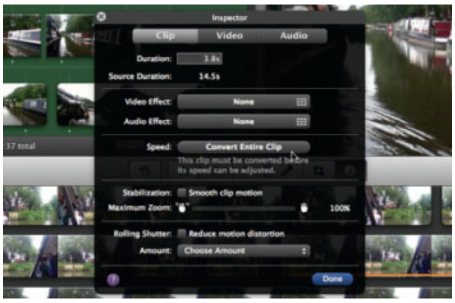
01 Manual Splitting

Add a clip to your project. It should be long enough to have multiple speed increases applied to it. There are two ways you can cut that clip. The first is by dragging across it to create a selection. Use the yellow handles to fine-tune this. Then, go to Clip > Split Clip.


Project Library
Project – We Canal See It 2
2:37 total

02 Keyboard splitting

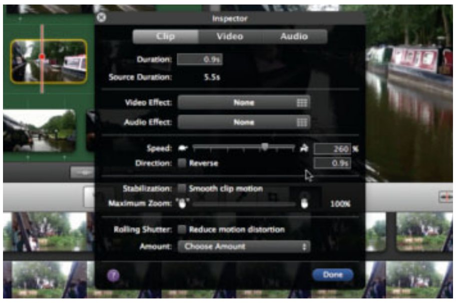
Let's not alter the first segment's speed. You can cut the other sections much more quickly with the help of a keyboard shortcut: mouse over the clip without selecting it. Once you're over the part you wish to cut, use ⇧+⌘+S. This method saves a lot of time.


Inspector
Clip
Video
Audio
Done

Duration: 3.8s
Source Duration: 14.5s
Video Effect: None
Audio Effect: None
Speed: Convert Entire Clip
This clip must be converted before its speed can be adjusted.
Stabilization: ☐ Smooth clip motion
Maximum Zoom: 100%
Rolling Shutter: ☐ Reduce motion distortion
Amount: Choose Amount

03 Adjusting

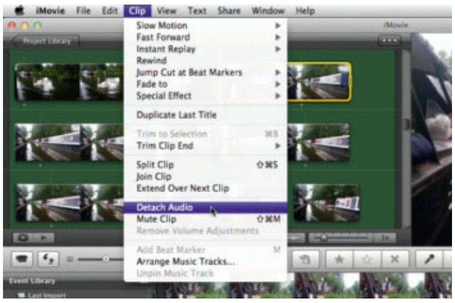
It's time to alter each section's speed. Select a clip then go to Window > Clip Adjustments or simply hit the I key. You may need to convert the clip before your can gain access to its speed controls but performing this action on one segment will affect them all.


Inspector
Clip
Video
Audio
Done

Duration: 0.9s
Source Duration: 5.5s
Video Effect: None
Audio Effect: None
Speed: 260 %
Direction: ☐ Reverse 0.9s
Stabilization: ☐ Smooth clip motion
Maximum Zoom: 100%
Rolling Shutter: ☐ Reduce motion distortion
Amount: Choose Amount

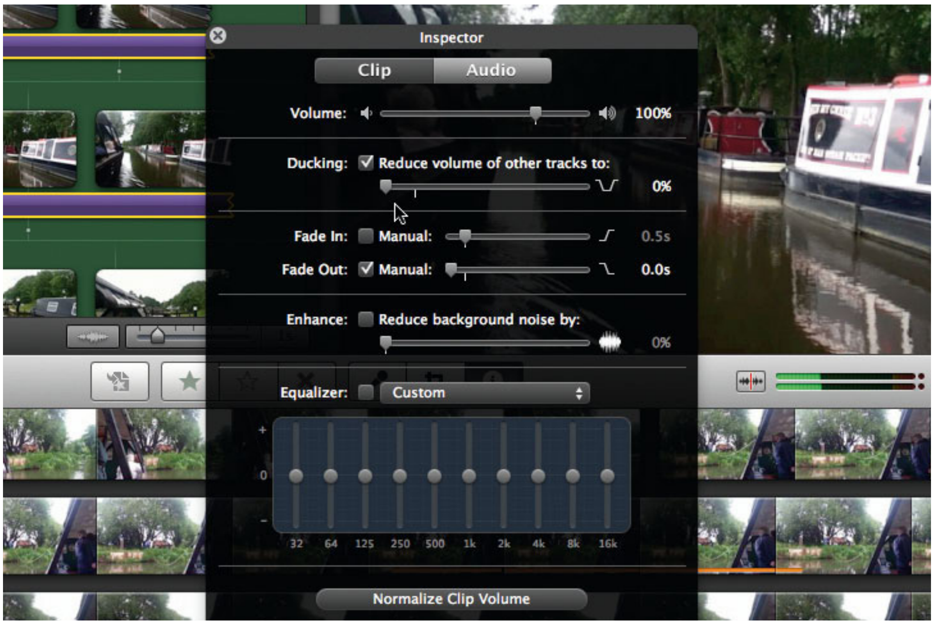
04 Speeding

You can change the speed with the slider but it's hard to control. Instead, click on the value to alter the speed with greater precision. You could change the second clip to 140%, the third to 180%, the fourth to 260%, or any combination you care to use.


iMovie
File
Edit
Clip
View
Text
Share
Window
Help
Slow Motion
Fast Forward
Instant Replay
Rewind
Jump Cut at Beat Markers
Fade to
Special Effect
Duplicate Last Title
Trim to Selection
Trim Clip End
Split Clip
Join Clip
Extend Over Next Clip
Detach Audio
Mute Clip
Remove Volume Adjustments
Add Beat Marker
Arrange Music Tracks...
Unpin Music Track

05 Detaching

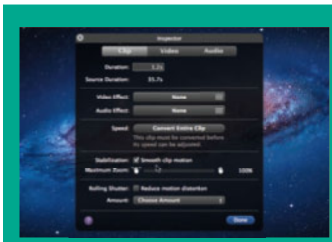
You can now move the cursor to the start of your effect and hit [Space] to play it. Change the speed of each individual segment until you get the right feel. Notice the audio has been sped up as well. To avoid this, select the first clip then go to Clip > Detach Audio.


Inspector
Clip
Audio
32
64
125
250
500
1k
2k
4k
8k
16k
Normalize Clip Volume

Volume: 100%
Ducking: ☑ Reduce volume of other tracks to: 0%
Fade In: ☐ Manual: 0.5s
Fade Out: ☑ Manual: 0.0s
Enhance: ☐ Reduce background noise by: 0%
Equalizer: ☐ Custom

06 Muting or Ducking

A purple audio track shows underneath that clip. Move the cursor over its right edge then drag it so it stretches across all the other segments. Play back your project now and you'll hear two audio tracks overlapping one another, which is far from ideal. You could select each clip individually and use the Inspector's **Audio** tab to mute them. You could also reveal the audio waveforms (by clicking on the button to the left of the **Thumbnail** slider, bottom-right of the project), and drag each track down to mute. But the easiest way is to double-click the detached audio to bring up the Inspector, toggle the **Ducking** in the **Audio** tab and drag its slider to the left to mute all other clips in one go. ●



QUICK TIP

When speeding up or slowing down a clip, any judder, even a slight one, becomes noticeable. Minimise this by **Stabilising** your clip. Do this prior to cutting it so you only have to perform the action once. The option is found in the Inspector window.

Create a Pages template

Make your own template so everything is as it should be when you open it

>> KEY INFO

DIFFICULTY
Beginner

TIME NEEDED
10 minutes

WHAT YOU'LL NEED
iWork '09

Pages is an application with many uses, from page layout to word processing, but it's more than likely that you use it for one task more than anything else. Whether it's writing essays, sending letters or creating a newsletter, the chances are you head back to *Pages* time and again to create the same document. Before you begin creating, however, there's normally some housekeeping to be done.

You might prefer to have the Styles Drawer open so you can quickly change page elements, or perhaps you like to have Layout turned on to see how your document fits together. At the very least, you'll want a basic template to work from rather than just a blank canvas that forces you to start from scratch. Rather than saving a document to work from each time, a template is far more convenient and helps you avoid saving over a file by mistake when working in this way.

By making your own templates, you can quickly start the process of creating without having to worry about your settings or page design when you open your document. Even if you use one of Apple's own templates as a starting point, you can customise it to your liking and save it as a document you can access each time you launch *Pages*. When a document is saved as a template, it appears in *Pages'* Template Chooser too, just like the default templates, so starting your work from a convenient position is only a couple of clicks away.

> *"You can quickly start the process of creating without having to worry about your settings"*

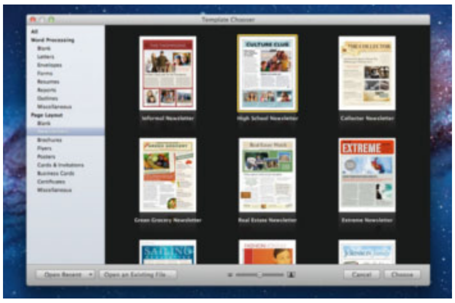
In this tutorial we'll show you how to build your new template, save it and access it from the Template Chooser so you can work faster in *Pages* when it comes to the projects you use most often.

Ben Harvell

Pages File Insert Format Arrange View Window Share Help
Thu 15:14
Monthly Newsletter — Edited
Paragraph Styles
Headline 1
Headline 2
Headline 3
Character Styles
List Styles
BAYSIDE NEWS
Headline text headline text
Big picture headline text
MacBook Pro

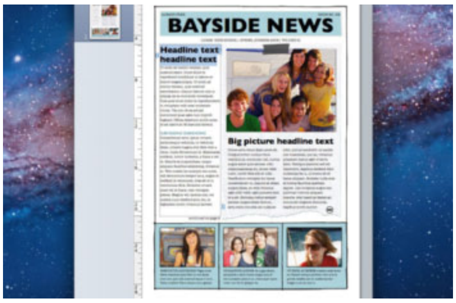
Create your own template in Pages and speed up your workflow.

HOW TO Create your own Pages template



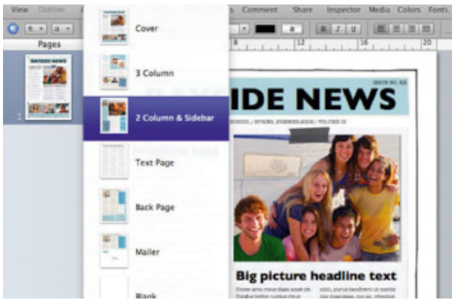
01 Starting point

Begin by launching *Pages* and choose an existing file you want to work from. You could use an Apple-made template or simply a blank page if you want to start your template from scratch. This document will provide the starting point for your new custom template.


BAYSIDE NEWS
Headline text headline text
Big picture headline text

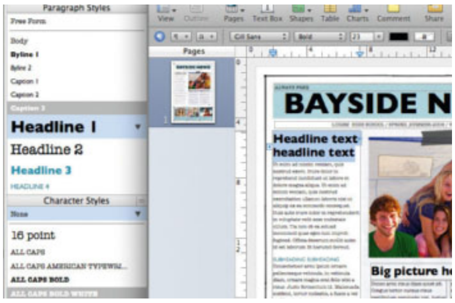
02 Set up your document

This step is really up to you. Whatever you want included in your template should now be added. Position images, text and boxes as you wish and choose your desired fonts and styles so that you can start working on the document without having to make changes.


Cover
3 Column
2 Column & Sidebar
Text Page
Back Page
Mailer
Blank
IDE NEWS
Big picture headline text

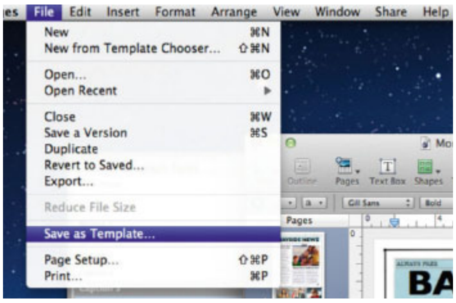
03 Add more pages

If the document you want to use requires more than one page, add them now by clicking on the **Sections** button and picking a page style. Set up this page in the same way you did in Step 2 and ensure all fonts and images are styled and positioned the way you want.


Paragraph Styles
Free Form
Body
Byline 1
Byline 2
Caption 1
Caption 2
Caption 3
Headline 1
Headline 2
Headline 3
HEADLINE 4
Character Styles
None
16 point
ALL CAPS
ALL CAPS AMERICAN TYPEWRI...
ALL CAPS BOLD
ALL CAPS BOLD WHITE
BAYSIDE N
Headline text headline text
Big picture h

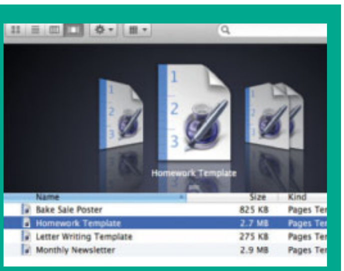
04 Interface adjustments

If you want the **Styles Drawer** to be open when you launch your template, open it now so that your preference is saved with your template. This applies to the **Layout** display, which can be turned on from the **View** menu and shows borders for all elements on the page.


File
Edit
Insert
Format
Arrange
View
Window
Share
Help
New ⌘N
New from Template Chooser... ⇧⌘N
Open... ⌘O
Open Recent
Close ⌘W
Save a Version ⌘S
Duplicate
Revert to Saved...
Export...
Reduce File Size
Save as Template...
Page Setup... ⇧⌘P
Print... ⌘P

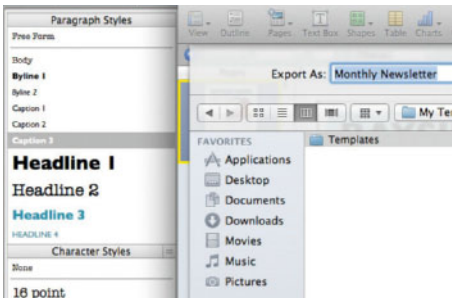
05 Save as template

When you're happy with your document, it's ready to be saved as a template. Head to the **File** menu and select **Save as Template**. You can now choose any location on your Mac to store your template, but it's best to keep it safe in the **Pages Templates** folder.


Homework Template
Name
Size
Kind
Bake Sale Poster
825 KB
Homework Template
2.7 MB
Letter Writing Template
275 KB
Monthly Newsletter
2.9 MB

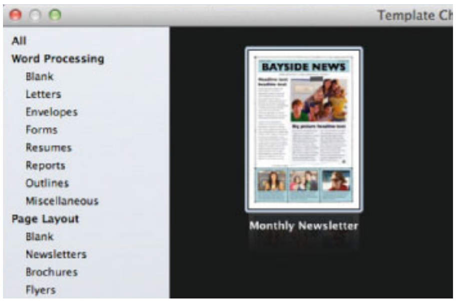
QUICK TIP

To move or delete templates after they have been saved, head to the Library > Application Support folder for your user account. Locate the iWork > Pages folder. The **Templates** and **My Templates** folder contains your templates.


Paragraph Styles
Export As: Monthly Newsletter
FAVORITES
Applications
Desktop
Documents
Downloads
Movies
Music
Pictures
Templates
Headline 1
Headline 2
Headline 3
16 point

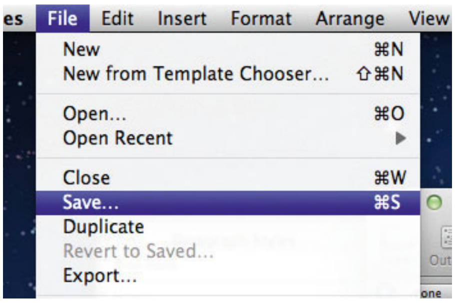
06 Multimedia

If your *Pages* document includes movies or audio files, they won't be accessible if you move the template to another computer. In order to make sure these files are bundled into your template, click the **Advanced Options** triangle and ensure the correct box is checked.


All
Word Processing
Blank
Letters
Envelopes
Forms
Resumes
Reports
Outlines
Miscellaneous
Page Layout
Blank
Newsletters
Brochures
Flyers
BAYSIDE NEWS
Monthly Newsletter

07 Test it out

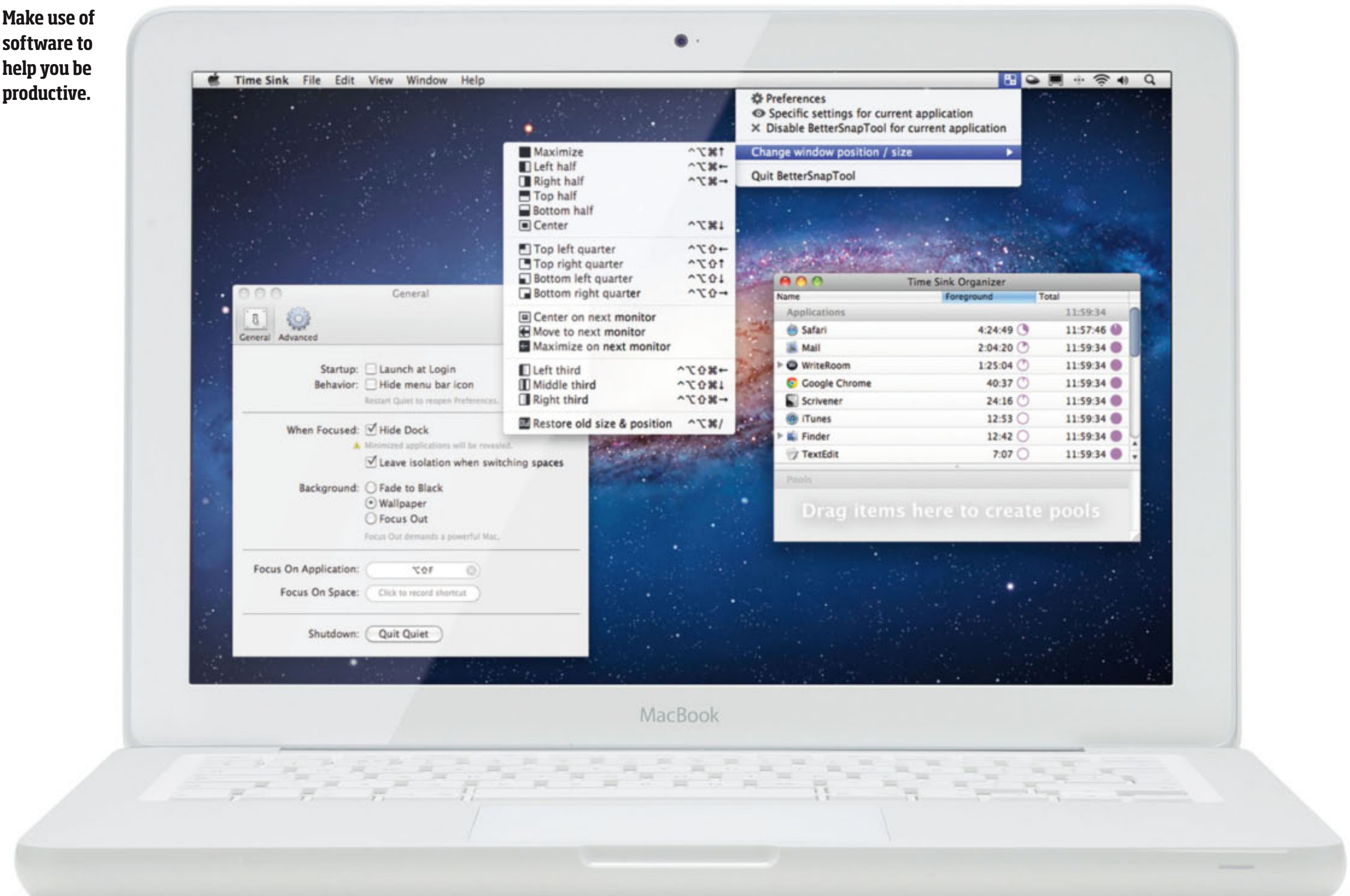
Once your template is saved, close your document and select File > New from Template Chooser. Click **My Templates** at the bottom of the **Template Chooser**'s left-hand pane and your saved template will be shown. Double-click the preview to open your template.


File
Edit
Insert
Format
Arrange
View
New ⌘N
New from Template Chooser... ⇧⌘N
Open... ⌘O
Open Recent
Close ⌘W
Save... ⌘S
Duplicate
Revert to Saved...
Export...

08 Start working

Your template will now open as a new document and, as a result, will be untitled. Save it with a new name and you're ready to start working. Now, every time you need to work on this kind of document you can launch your template rather than start from scratch. ●

Make use of software to help you be productive.



Time Sink File Edit View Window Help
Preferences
Specific settings for current application
Disable BetterSnapTool for current application
Change window position / size
Quit BetterSnapTool
Maximize
Left half
Right half
Top half
Bottom half
Center
Top left quarter
Top right quarter
Bottom left quarter
Bottom right quarter
Center on next monitor
Move to next monitor
Maximize on next monitor
Left third
Middle third
Right third
Restore old size & position
General
Advanced
Quit Quiet
Time Sink Organizer
Drag items here to create pools
MacBook

Startup: ☐ Launch at Login

Behavior: ☐ Hide menu bar icon

When Focused: ☑ Hide Dock

☑ Leave isolation when switching spaces

Background: ○ Fade to Black ● Wallpaper ○ Focus Out

Name	Foreground	Total
Applications		11:59:34
Safari	4:24:49	11:57:46
Mail	2:04:20	11:59:34
WriteRoom	1:25:04	11:59:34
Google Chrome	40:37	11:59:34
Scrivener	24:16	11:59:34
iTunes	12:53	11:59:34
Finder	12:42	11:59:34
TextEdit	7:07	11:59:34

Be more productive on a Mac

Use these apps to change your habits and get more done each day

>> KEY INFO

DIFFICULTY
Beginner

TIME NEEDED
30 minutes

WHAT YOU'LL NEED
Mac OS X 10.6.6+, Quiet, BetterSnapTool, Time Sink

>> ON THE DISC
Find some apps on the disc.

Procrastination is far more varied than it used to be. If you were a writer before the 90s, for example, chances are you hammered away at a typewriter or simple word processor all day, and when you were at your desk you were working. That's not the case today: assuming you've got an internet connection, your Mac can access limitless distractions. And even if you don't have a web connection, there are many apps and games vying for attention, trying to tempt you away from work.

Taking the odd break is beneficial (although a break away from your Mac is better than one where you remain in front of the screen – see page 56). But these days it's too easy to take regular breaks, checking the latest email or instant message, new tweets, or some other alert. Research has found it takes a long time for many people to settle back into focused work, and this means if you're always interrupted, you're never focused and being productive.

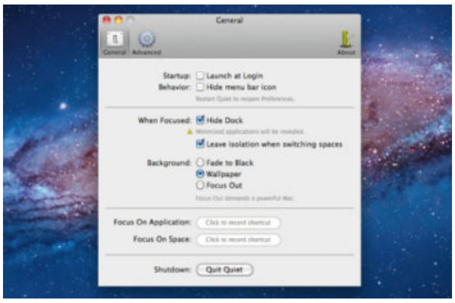
Two things can assist you in being more productive on your Mac: changing your habits and using software that forces you to focus on a task. In terms of habits, stop checking email so often. If you use *Mail*, set **Check for new messages** (in the **General** preferences) to **Every hour** or a lower frequency, and turn off *Growl* support for any apps where your knowing about updates isn't critical. In some cases, you may be able to fine-tune these updates, such as in *Twitter*, where you can use the **Notifications** preferences to disable those for general tweets but leave them on for direct messages.

> *"If you have a web connection, there are many apps and games vying for attention to tempt you from work"*

On the next page, we cover some software, showing how three useful apps from the Mac App Store can help productivity. They are *Quiet* (£2.49), *BetterSnapTool* (£1.49) and *Time Sink* (£2.99).

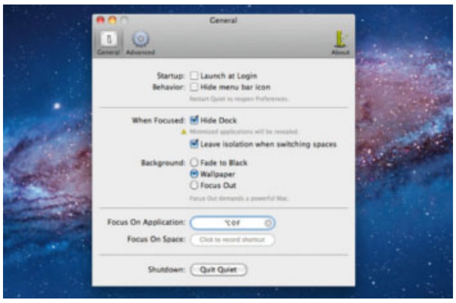
Craig Grannell

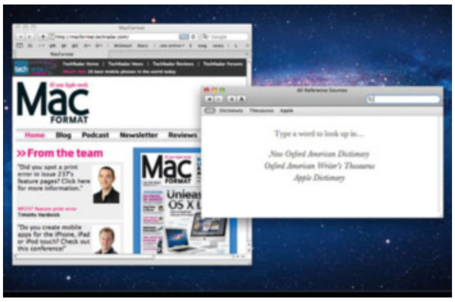
» HOW TO / Use apps to be more productive



General

Startup: ☐ Launch at Login
Behavior: ☐ Hide menu bar icon
When Focused: ☑ Hide Dock
☑ Leave isolation when switching spaces
Background: ○ Fade to Black
● Wallpaper
○ Focus Out
Focus On Application: Click to record shortcut
Focus On Space: Click to record shortcut
Shutdown: Quit Quiet





01 Set up Quiet

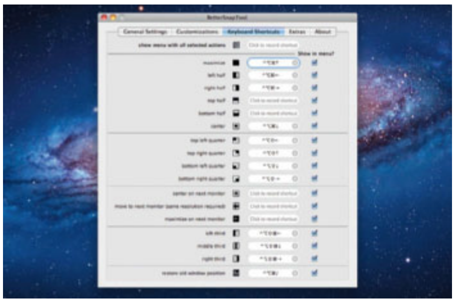
Launch *Quiet:* it will appear in the menu bar. Select **Preferences** and choose **General**. Check **Hide Dock** so the Dock hides during isolation. (Also, learn ⌘+⌥+D for getting rid of the Dock at other times.) Select an option from **Background**, to define it when in isolation.

02 Define a shortcut

Click the field next to **Focus On Application**. Define a keyboard shortcut to trigger isolation mode, such as ⇧+⌥+F. Switch to any open app and use the shortcut. You should find all other windows, the menu bar and the Dock are now hidden from view.

03 View a second app

Use ⌘+⇥ to bring up the app-switcher. Select an app and it will also be brought into isolation mode. Use your shortcut to disable and re-enable isolation mode at will. If you enjoy using *Quiet*, check **Launch at Login** in its **General** preferences.

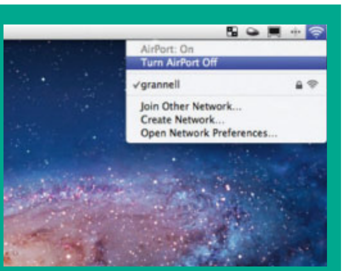


04 Use BetterSnapTool

Launch *BetterSnapTool* and select **Preferences** from its menu-bar extra's menu. Select **Keyboard Shortcuts**. Click next to **maximise** and press ⌘+⌥+ctrl+▲. Pressing this combination will now zoom an application's window to full-screen, helping you focus.

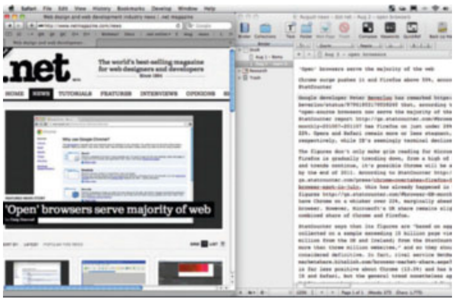
05 Combine with Quiet

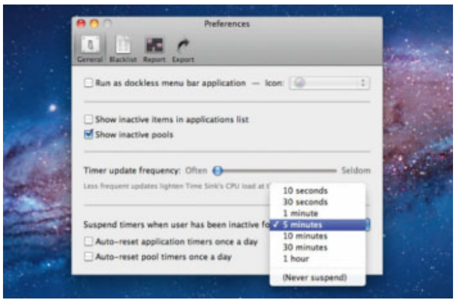
If you launch *Quiet* and also use *BetterSnapTool*, you can, with a couple of shortcuts, not only make your active window full-screen but also hide the Dock, menu bar and apps. If you use a mouse, use equivalent options from the menu-bar extra menus.



» QUICK TIP

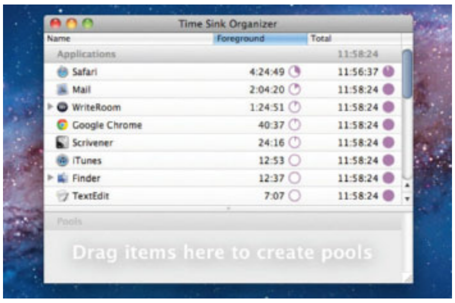
If you're still distracted, quit all apps and only launch those you need for a specific task. Spend too much time online? Use **Network Preferences** to put the AirPort status in the menu bar and turn off your internet connection while you work.





Preferences

☐ Run as dockless menu bar application — Icon:
☐ Show inactive items in applications list
☑ Show inactive pools
Timer update frequency: Often — Seldom
Suspend timers when user has been inactive for: ✓ 5 minutes
☐ Auto-reset application timers once a day
☐ Auto-reset pool timers once a day



Time Sink Organizer

Name	Foreground	Total
Applications		11:58:24
Safari	4:24:49	11:56:37
Mail	2:04:20	11:58:24
WriteRoom	1:24:51	11:58:24
Google Chrome	40:37	11:58:24
Scrivener	24:16	11:58:24
iTunes	12:53	11:58:24
Finder	12:37	11:58:24
TextEdit	7:07	11:58:24

Pools

Drag items here to create pools

06 Go split-screen

BetterSnapTool enables you to use menus or shortcuts to split the screen into halves, quarters and thirds. Assign shortcuts to these options and move into isolation mode; bring two or three apps forward and assign their window to a section of the screen.

07 Set up Time Sink

Launch *Time Sink* and open the **General** section of its preferences. Set the **Suspend…** option to a suitable duration that denotes inactivity for your work. This will automatically pause the *Time Sink* timer should your Mac be left alone for that duration.

08 View Time Sink

While it's running, *Time Sink* will tot up how long each app's been open and how long it's been in the foreground, highlighting when you're working or wasting time. Using the **Export** preferences, you can export a daily report if you want to keep track of habits. ●

Get organised with timers

Use iCal and timer apps to remember events and improve your working life

>> KEY INFO

DIFFICULTY
Beginner

TIME NEEDED
15 minutes

WHAT YOU'LL NEED
iCal, Pester, BreakTime

>> ON THE DISC
Find some apps on your disc.

Keep on top of those time-sensitive tasks with a few well-timed installations.

You may have heard it said that the human mind has about seven slots within which to store important nuggets of immediately important information. Although scientists will argue that it's all considerably more complicated than that, they'd also probably agree that short-term memory can abruptly and inconveniently decay. In other words, people forget things.

Before computers, people often carted around hefty diaries that informed them what they should be doing at any given moment (and many people still do this), but if you're armed with a Mac and a few minutes of spare time, there are apps available to give you a nudge when you should be doing something other than staring blankly at Twitter or messing about trying to compose a top 10 hit in *GarageBand*.

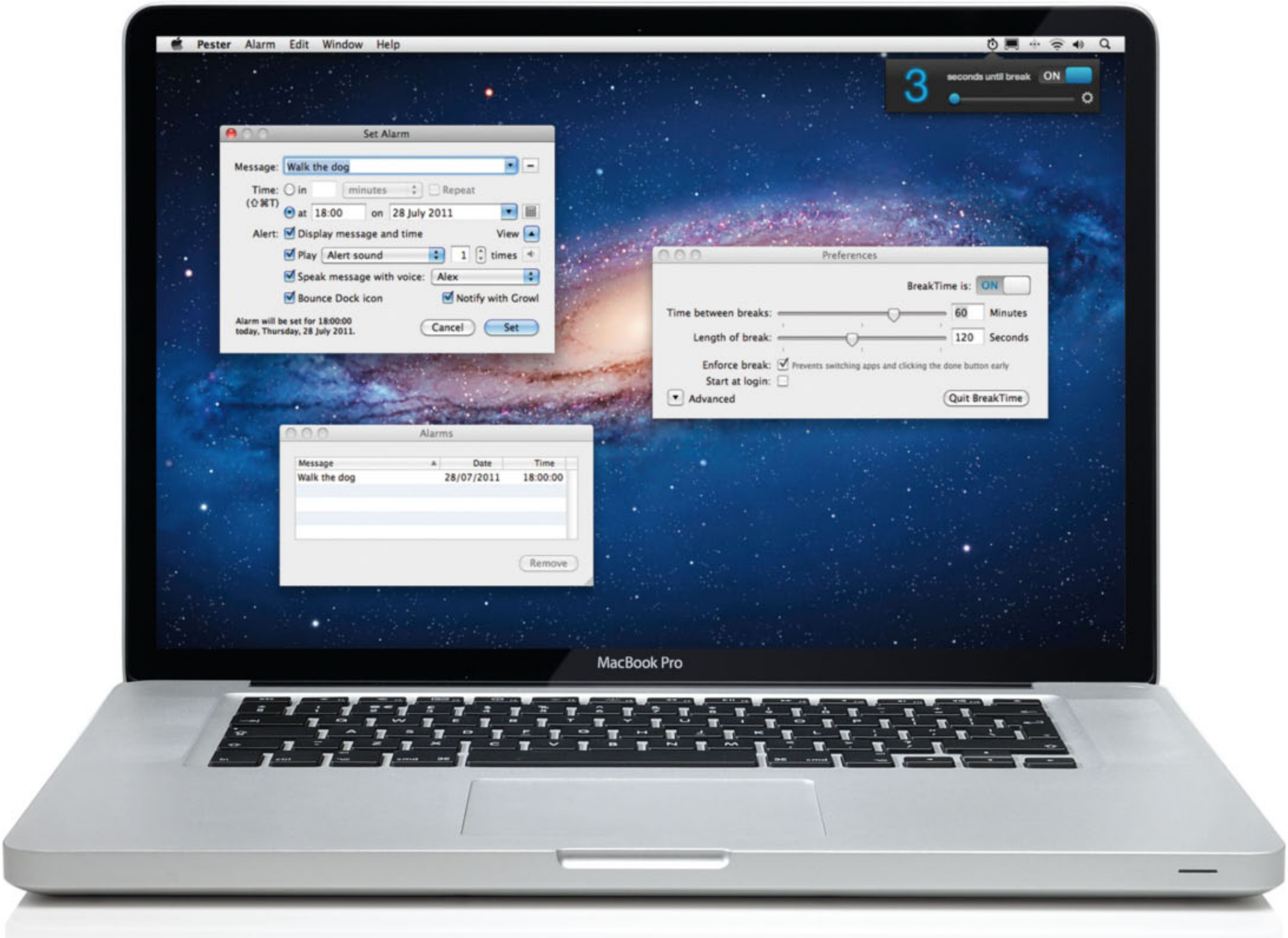
This tutorial covers three different apps that include timers, and each is worth consideration for a different kind of reminder. First, we look at Apple's *iCal*, which provides a quick and easy means to create an event that can have all kinds of alarms attached to it, including visual messages, blaring audio and email.

> *"There are some applications available that give you a nudge when you should be doing something"*

While *iCal* makes sense for events in the distant future, *Pester* is better for reminders relating to imminent tasks and demands. Like *iCal*, *Pester* is free – you can grab a copy from http://sabi.net/nriley/software.

The final app we're checking out is *BreakTime*, available from the Mac App Store, priced £1.99. *BreakTime* is, like *Pester*, a countdown timer, but it's more specialised in nature. Instead of counting down to an event, it's designed to remind you to not sit in front of your Mac all day. You define settings that cause *BreakTime* to lock you out of your machine at periodic intervals, during which you can have a quick stretch or go for a walk.

Craig Grannell



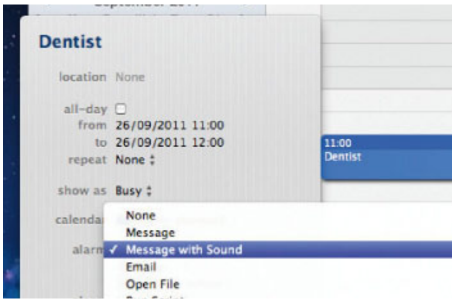
3 seconds until break ON

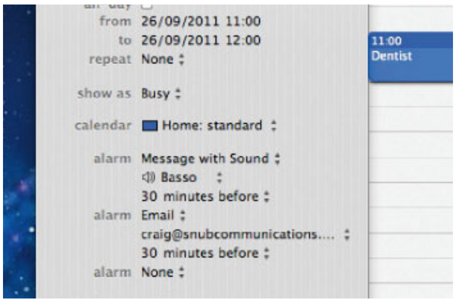
Message: Walk the dog
Time: ○ in minutes ☐ Repeat
(⇧⌘T) ● at 18:00 on 28 July 2011
Alert: ☑ Display message and time
☑ Play Alert sound 1 times
☑ Speak message with voice: Alex
☑ Bounce Dock icon ☑ Notify with Growl
Alarm will be set for 18:00:00 today, Thursday, 28 July 2011.

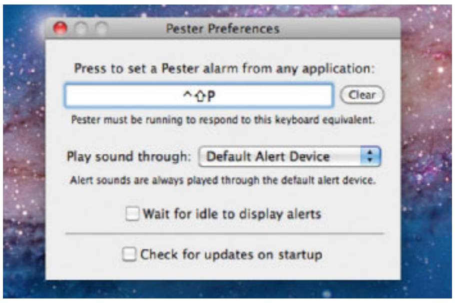
Message	Date	Time
Walk the dog	28/07/2011	18:00:00

BreakTime is: ON
Time between breaks: 60 Minutes
Length of break: 120 Seconds
Enforce break: ☑ Prevents switching apps and clicking the done button early
Start at login: ☐

HOW TO / Use reminders to help remember events and tasks


Dentist
location None
all-day ☐
from 26/09/2011 11:00
to 26/09/2011 12:00
repeat None
show as Busy
alarm ✓ Message with Sound


from 26/09/2011 11:00
to 26/09/2011 12:00
repeat None
show as Busy
calendar Home: standard
alarm Message with Sound
Basso
30 minutes before
alarm Email
craig@snubcommunications....
30 minutes before
alarm None


Press to set a Pester alarm from any application: ^⇧P
Pester must be running to respond to this keyboard equivalent.
Play sound through: Default Alert Device
Alert sounds are always played through the default alert device.
☐ Wait for idle to display alerts
☐ Check for updates on startup

01 Create an iCal event

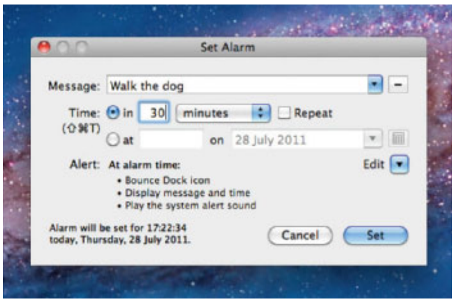
Create an event by dragging out a selection. Click **Edit** and add whatever event details you wish. Click **alarm** and choose an alarm type from the pop-up menu. Choose relevant settings and define the amount of time before the event when the alarm should go off.

02 Set extra alarms

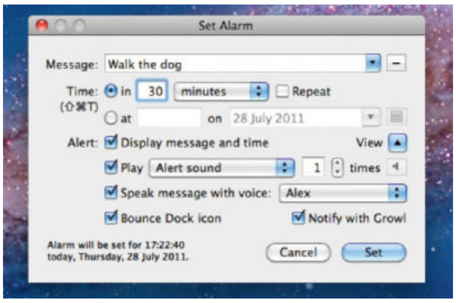
Once you've defined your alarm, you'll notice that a second **alarm** menu appears. This enables you to set a back-up alarm. You can, for example, set one alarm closer to the event than the other, or back up a message alarm with an email, in case you're away when it goes off.

03 Define a shortcut

Launch *Pester* and open its preferences (⌘+,). Click inside the text field and define a keyboard shortcut; this will enable you to set a *Pester* alarm from anywhere on your system. Try to use a shortcut other apps don't use (such as ctrl+⇧+P). Close the preferences window.


Message: Walk the dog
Time: ● in 30 minutes ☐ Repeat
(⇧⌘T) ○ at on 28 July 2011
Alert: At alarm time:
- Bounce Dock icon
- Display message and time
- Play the system alert sound

Alarm will be set for 17:22:34 today, Thursday, 28 July 2011.


Message: Walk the dog
Time: ● in 30 minutes ☐ Repeat
(⇧⌘T) ○ at on 28 July 2011
Alert: ☑ Display message and time
☑ Play Alert sound 1 times
☑ Speak message with voice: Alex
☑ Bounce Dock icon ☑ Notify with Growl

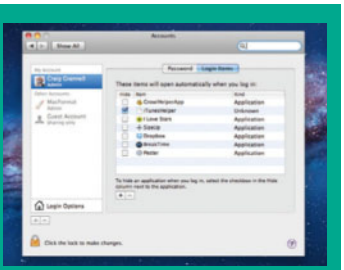
Alarm will be set for 17:22:40 today, Thursday, 28 July 2011.

04 Set an alarm

Use your shortcut to bring up the **Set Alarm** window. Type a message for your reminder, define how long you want before the message appears (or use 'at' to set a specific time and date). You can at this point click **Set** to continue, or use **Edit** to add further options.

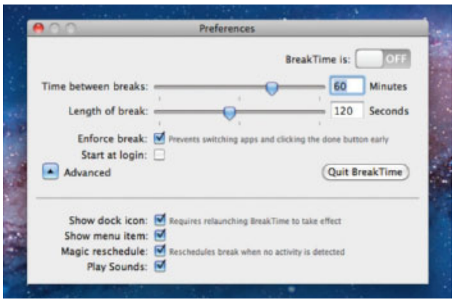
05 Add further options

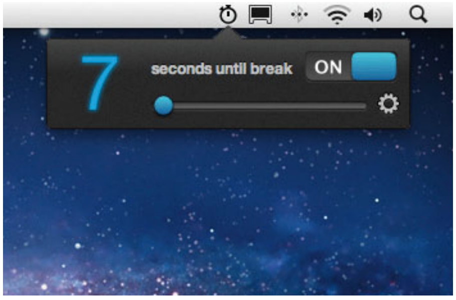
If you click **Edit**, you can play an alert sound a number of times, have your Mac speak the message, bounce the Dock icon and have *Pester* notify you with *Growl*. If all those things don't get your attention, seek help. In *Pester*, go to Alarm > All Alarms to see all upcoming alerts.

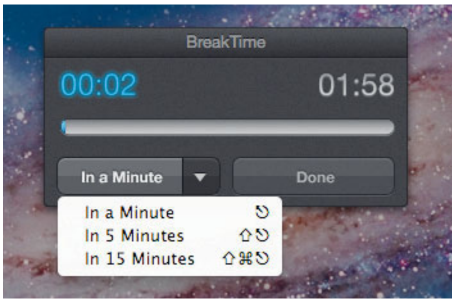


QUICK TIP

If you regularly use *Pester* or *BreakTime*, have them load at login. With *BreakTime*, check **Start at login** in its preferences. With *Pester*, add it manually in the **Login Items** section of the **Accounts** pane in **System Preferences**.


BreakTime is: OFF
Time between breaks: 60 Minutes
Length of break: 120 Seconds
Enforce break: ☑ Prevents switching apps and clicking the done button early
Start at login: ☐
Show dock icon: ☑ Requires relaunching BreakTime to take effect
Show menu item: ☑
Magic reschedule: ☑ Reschedules break when no activity is detected
Play Sounds: ☑


7 seconds until break ON



06 Define some downtime

Launch *BreakTime*, click its menu extra (the stopwatch) and click the cog to open the **Preferences** window. Drag the sliders to define the time between breaks and how long the breaks should be. Select **Enforce break** to be locked out of your Mac during breaktimes.

07 Turn on BreakTime

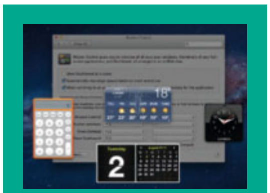
Turn *BreakTime* on using the switch in its preferences or menu extra menu. It will count down. Ten seconds before your break, you'll see the countdown timer, and then the app's window will appear. This will then count upwards, timing the break. Pop out for a stroll!

08 Snooze your break

Use the **In a Minute** menu to put off the break for one, five or 15 minutes. The **Done** button will be greyed out if **Enforce break** is active, but you can always quit the app (⌘+Q) in an emergency. Don't 'cheat', though: the breaks are for your health and wellbeing! ●

Make Lion like Snow Leopard

Make the OS transition more seamless by reassigning old ways of working



»QUICK TIP

Opening *Dashboard* moves you to a new desktop. Restore widgets on a layer above your apps in System Preferences > Mission Control > Show Dashboard as a space.

New features that make your Mac easier to use are always welcome, and Lion is packed with plenty of them, but it also changes a few things that can be hard to adjust to. Many of them can be rolled back in *System Preferences* and in applications' preferences. In addition, there's a bunch of covert settings that can be amended by typing commands into *Terminal*. So, if you're finding it hard to settle in with Lion, here's how to restore a sense of normality to many aspects of OS X.

The first thing that will hit you is what Apple calls 'natural scrolling'. It makes moving around a document or website more like pushing a piece of paper around your desk, rather than making you interact with artificial elements like scrollbars and a viewport onto a document. Essentially You push the paper away from you to move down, instead of dragging the scrollbar down the side of the document, like you used to.

Worry not. You can set this method of navigation back to normal in *System Preferences*. Untick the box under Mouse > Point & Click > Scroll direction: natural. The same setting appears in the **Trackpad** pane. If you've got a Magic Mouse and a trackpad, their scroll direction can be set independent of each other.

If your mouse isn't a Magic Mouse, look for **Move content in the direction of finger movement when scrolling or navigating** at the top of the **Mouse** pane. You may not see this option if third-party software, such as *Microsoft IntelliMouse*, is installed. Remove that software and reopen *System Preferences*, and reinstall the software after changing the setting.

> *"You're not imagining that the traffic light buttons in Lion are smaller. This is baked into the system…"*

Scrollbars only appear when you begin to scroll. Make them always visible by selecting System Preferences > General > Show scroll bars > Always. Lion's scrollbars have a subtler appearance than the old Aqua blue style. They're also narrower, which makes them harder to grab if you don't have a scrollwheel, and the arrows that moved pages in small amounts are no longer available. However, the positive repercussion of bringing back scrollbars is that they serve as a way to orient yourself in a document, which is particularly helpful in creative apps.

Sizeable change

You're not imagining that the traffic light buttons are smaller. This is baked into the system, but the buttons aren't as small as they seem. Their hit areas extend a little way above their tops, providing some leeway if you move the pointer too far. Conversely, items in the *Finder's* sidebar are larger than before. There's a new system-wide setting for sidebar icon and text sizes, although not every app adheres to it at present. The *Finder* and *Mail* do. Items can be made smaller again, or larger, in System Preferences > General > Sidebar icon size.

There's no longer a special section in the *Finder's* search bar for saved searches, or smart folders. Save a Spotlight search and it gets placed under 'Favorites'. The old set of default searches are still embedded in the *Finder* app, but adding them to the sidebar displays a mundane document icon. Recreating them yourself gives them a cog icon that's more distinguishable.

Another quirk of Lion is that automatically takes you the new All My Files folder every time you open a new Finder window. That's fine for new Mac users who are unfamiliar with the way that the OS X works, but it's frustrating if you're used to seeing your Home or Documents

MacBook Air

Inevitably Lion will have features you won't like or won't have a use for. In that case, we have reversion tricks for you.

folders instead. Luckily a fix is very easy to find: just go to Finder > Finder Preferences and select your preferred destination from the New Finder Windows Show drop-down list.

OS X has long provided visual hints to give you a sense of continuity – the Genie effect that indicates where to find a window you just minimised, for instance. Animation is used more extensively in Lion. Create a new window in *Safari* or *TextEdit* and it zooms into view from the distance. Similar cues direct your eyes to dialogs (such as when emptying the Trash) and pop-outs (like *Safari*'s new Downloads list). If you prefer instant appearance, enter this in *Terminal*: defaults write NSGlobalDomain NSAutomaticWindowAnimationsEnabled -bool NO. To reverse this, substitute YES for NO. Applications will pick up the change after they've been quit and reopened, and the *Finder* will after logging out.

Slip and slide

Mail has a similar visual trick when you reply to a message. That's governed by a different setting. In *Terminal*, type defaults write com.apple.Mail DisableReplyAnimations -bool YES. When *Mail* is running in windowed mode, the reply window will simply appear. In full-screen mode, it will slide into view from the bottom, the same as when composing a new message.

The differences in *Mail* run far deeper than that. Its two-pane layout frees up space for reading messages by hiding the list of your mailboxes. Just click Show in the Favorites Bar, just above the list of messages, to bring them back. Space is taken from the message pane to accommodate this. The Favorites Bar can be useful even with mailboxes visible, or it can be turned off if you don't want it by selecting View > Hide Favorites Bar.

If the three-column layout doesn't work for you, choose Mail > Preferences > Viewing > Use classic layout. This stacks the messages list above the message viewer. Even then, messages that are part of the same conversation are grouped under the most recent reply. There might be times when you need to establish the exact order of messages that are part of separate but related conversations. In the View menu, make sure there isn't a tick next to Organize by Conversation so that messages are listed individually and chronologically.

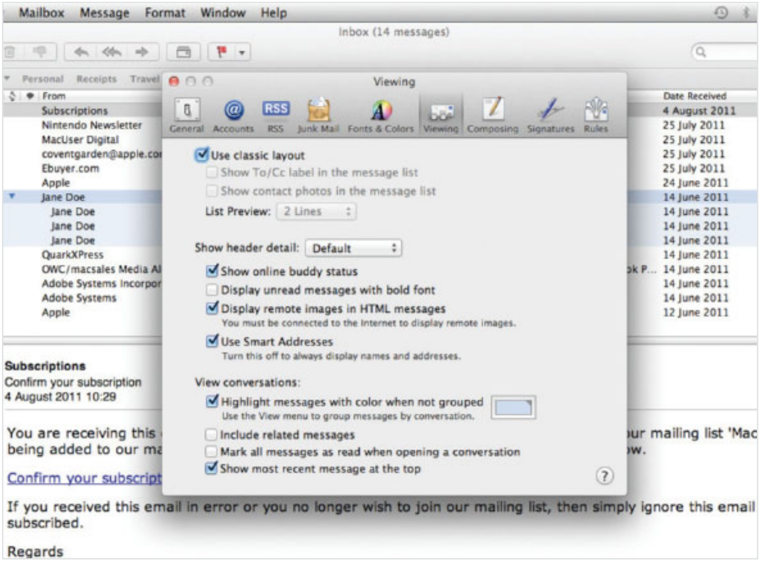
The new-look *iCal* and *Address Book* are controversial, and not just because of their brightly textured windows. *Address Book*'s skeuomorphic design has come in for criticism because it's confusing and unwieldy. Unfortunately Apple has removed an option reported in pre-release versions that switched back to the classic three-column view.

"The new-look iCal and Address Book are controversial, and not just because of their textured windows"

The author of the MacNix blog has created replacement files that restore a more subdued appearance to both apps. They can be found at http://tinyurl.com/3jpry77. Keep backups of the apps and restore those versions before installing system updates. Also be aware that this amends the app in a way that can cause problems that are tricky to pinpoint. A case in point is the technical explanation which can be read at http://tinyurl.com/3fas2pz.

Safari 5.1 has a new behaviour when you hold ⌘ (or use the right-click menu) to open a link in a new tab. It opens immediately to the right, which matches the way *Firefox* and *Chrome* work. If that's difficult to get used to after so long, grab the OpenAtEnd extension

»



From	Date Received
Subscriptions	4 August 2011
Nintendo Newsletter	25 July 2011
MacUser Digital	25 July 2011
coventgarden@apple.co	25 July 2011
Ebuyer.com	25 July 2011
Apple	24 June 2011
Jane Doe	14 June 2011
Jane Doe	14 June 2011
Jane Doe	14 June 2011
Jane Doe	14 June 2011
QuarkXPress	14 June 2011
OWC/macsales Media Al	14 June 2011
Adobe Systems Incorpor	14 June 2011
Adobe Systems	14 June 2011
Apple	12 June 2011

☑ Use classic layout
☐ Show To/Cc label in the message list
☐ Show contact photos in the message list
List Preview: 2 Lines

Show header detail: Default
☑ Show online buddy status
☐ Display unread messages with bold font
☑ Display remote images in HTML messages
You must be connected to the Internet to display remote images.
☑ Use Smart Addresses
Turn this off to always display names and addresses.

View conversations:
☑ Highlight messages with color when not grouped
Use the View menu to group messages by conversation.
☐ Include related messages
☐ Mark all messages as read when opening a conversation
☑ Show most recent message at the top

Subscriptions
Confirm your subscription
4 August 2011 10:29

You are receiving this … being added to our ma… ur mailing list 'Mac … w.

Confirm your subscript…

If you received this email in error or you no longer wish to join our mailing list, then simply ignore this email subscribed.

Regards

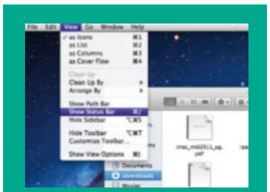
Mail can adopt a two- or three-column arrangement, or be reverted to its classic layout.

» HOW TO / Browse the way you used to

Even with scrolling restored to its traditional behaviour, moving back and forwards between pages in *Safari* is inverted when using multi-touch devices. Lion treats web pages like a stack of paper. Swiping right (with one finger on a Magic Mouse, two on a trackpad) pushes the current page off the stack to reveal the previous one beneath it. Swiping left brings it back.

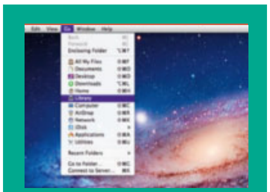
You can return to the traditional association of left with back and right with forwards in *System Preferences*. In the **Mouse** and **Trackpad** panes, look under **More Gestures** for **Swipe between pages**. The first setting (**Scroll left or right...**) slides pages around. Switching to the second option (**Swipe left or right...**) reverses the directions and restores the hard jumps between pages. Choosing it increases the number of fingers used to move between desktops from three to four. This also affects the way you move between PDF pages in *Preview*. The default setting doesn't work with *Firefox 5.0.1* and *Chrome 13*, but switching to **Swipe left or right...** lets you use gesture-based navigation.

Safari wants you to push pages around as if you were doing so physically.



» QUICK TIP

The *Finder*'s status bar is hidden by default. Choose View > Show Status Bar to see a free space reading, number of items selected, and for a slider to adjust the size in icon view.



QUICK TIP

The **Library** is hidden, Hold ⌥ when in the *Finder's* **Go** menu to see it. To see it in *Finder* windows type **chflags nohidden ~/Library** in *Terminal*. Substitute 'hidden' to reverse.

(http://lrasinen.kapsi.fi/OpenAtEnd) to go back to tabs appearing at the far right of the bar.

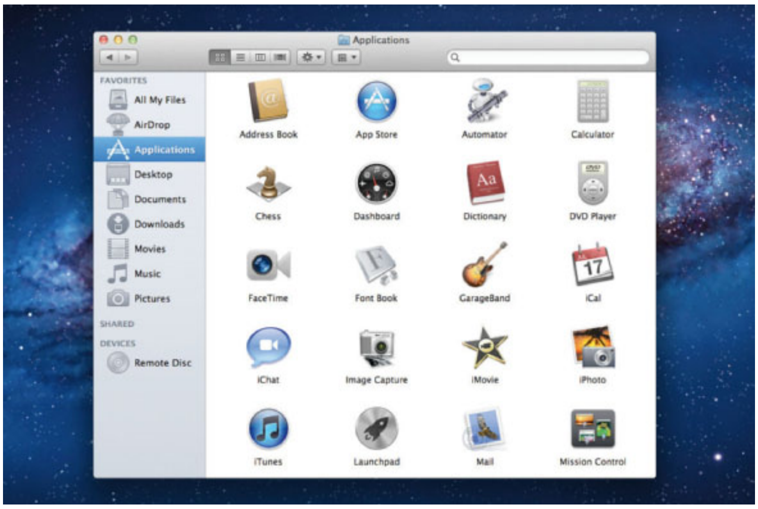
Mission Control

Mission Control makes desktops (previously called Spaces) a mainstream feature. They can't be avoided if you're going to use full-screen apps. They're organised in a long row, which Mission Control sorts so that the desktops you're using most often move to the left.

That works well if you use ctrl and the left and right arrow keys to jump between apps on adjacent desktops. Things get confusing if you've upgraded from Snow Leopard and have memorised numeric shortcuts to take you to specific apps, or have enabled them in a fresh copy of Lion in System Preferences > Keyboard > Keyboard Shortcuts > Mission Control. You can get into the situation where ctrl+6, for example, actually takes you to Desktop 3 because that has been moved to sixth position in the row. To stop this happening, turn off System Preferences > Mission Control > Automatically rearrange spaces based on most recent use.

One thing that will grate for heavy users of Spaces is the removal of an overview of app assignments. A less friendly summary can be seen by opening ~/Library/Preferences/com.apple.spaces.plist in *TextExpander* or *Xcode* (both free from the App Store) and looking within the app-bindings key. The values aren't expressed as simple desktop numbers, which makes them difficult to read, but this confirms which apps have assignments. Worried about editing the file directly? Temporarily add an app to the Dock, right-click it and look under Options to amend its setting.

An intuitive way to type accented characters is one of the best adoptions from iOS. Hold down the relevant key to show a pop-up listing the various forms. It comes at the expense of being able to hold a key down to repeat a character. You can get that back as long as you don't mind forfeiting the new shortcut by typing this into *Terminal*: defaults write -g ApplePressAndHoldEnabled -bool false. Replacing -g with an app's bundle identifier (found by right-clicking it in the *Finder*,


Applications
FAVORITES
All My Files
AirDrop
Applications
Desktop
Documents
Downloads
Movies
Music
Pictures
SHARED
DEVICES
Remote Disc
Address Book
App Store
Automator
Calculator
Chess
Dashboard
Dictionary
DVD Player
FaceTime
Font Book
GarageBand
iCal
iChat
Image Capture
iMovie
iPhoto
iTunes
Launchpad
Mail
Mission Control

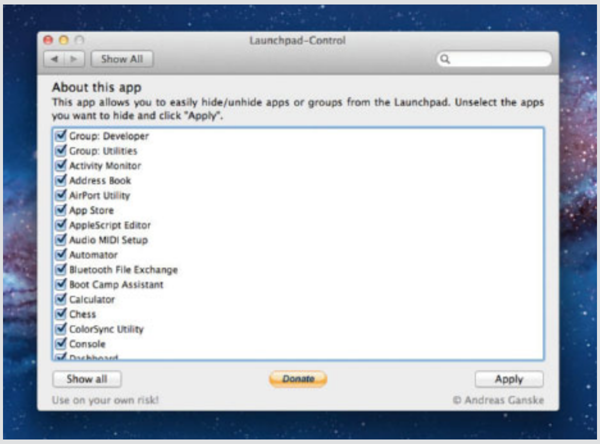
Make Finder's sidebar icons the same size as in Snow Leopard or go for the super-sized option.

> *"An intuitive way to type accented characters is one of the best adoptions of iOS in OS X Lion"*

HOW TO / Clean up Launchpad

New features don't get much simpler than Launchpad. Lion's app launcher works just like the Home screen in iOS. It's intended to be a simple and effective way to open apps that you don't want to keep in the Dock, and without having to open the **Applications** folder or use the Spotlight menu as an app launcher. However, a lot of work is needed to get it shipshape.

Every app on your Mac appears in Launchpad, including supplementary tools that were bundled with apps and which you rarely use. It wouldn't be so bad if there was a quick way to move several icons at once, or to swiftly remove the icons you don't want to see there. But getting things how you want them means dragging icons around one at a time. Launchpad uses a database to keep track of how icons are organised. Now a preference pane has been developed that reads this file and lets you hide the app icons you don't want to see. They still show in the **Applications** folder, and you can put Launchpad in order. *Launchpad-Control* is free at **http://tinyurl.com/3jstn4r**.


Launchpad-Control
Show All
Show all
Donate
Apply

About this app

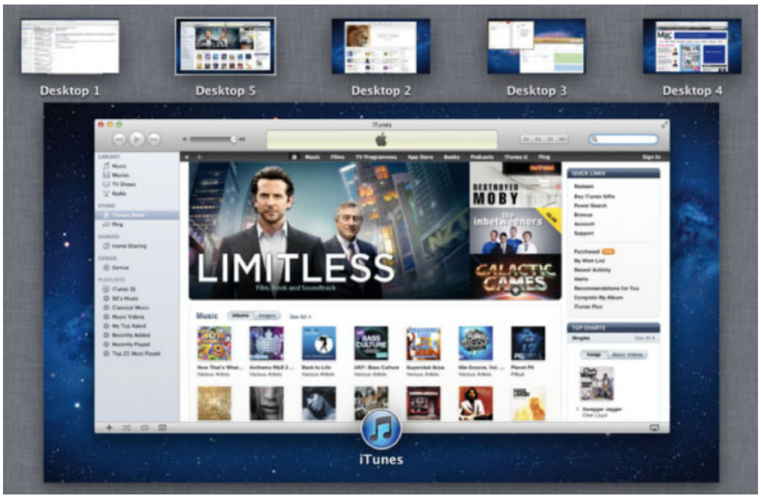
This app allows you to easily hide/unhide apps or groups from the Launchpad. Unselect the apps you want to hide and click "Apply".

- ☑ Group: Developer
- ☑ Group: Utilities
- ☑ Activity Monitor
- ☑ Address Book
- ☑ AirPort Utility
- ☑ App Store
- ☑ AppleScript Editor
- ☑ Audio MIDI Setup
- ☑ Automator
- ☑ Bluetooth File Exchange
- ☑ Boot Camp Assistant
- ☑ Calculator
- ☑ Chess
- ☑ ColorSync Utility
- ☑ Console
- ☑ Dashboard

Use on your own risk!

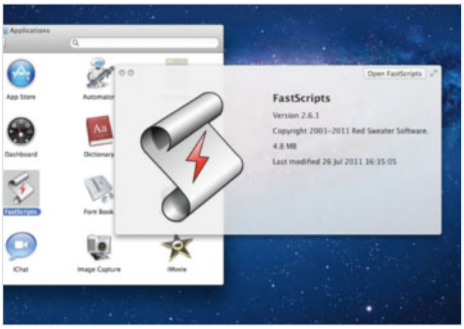
© Andreas Ganske

This LaunchPad-Control pane makes light work of tidying Launchpad.


Desktop 1
Desktop 5
Desktop 2
Desktop 3
Desktop 4
LIMITLESS
iTunes

Shortcuts that use numbers don't always go to the right place in Mission Control.

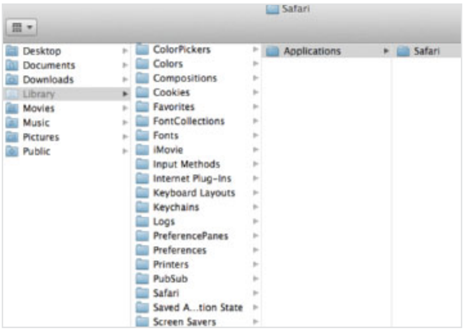
HOW TO / Access Safari's Downloads list from the keyboard


Applications
App Store
Automator
Dashboard
Dictionary
FastScripts
Font Book
iChat
Image Capture
iMovie
Open FastScripts

FastScripts
Version 2.6.1
Copyright 2003–2011 Red Sweater Software.
4.8 MB
Last modified 26 Jul 2011 16:35:05

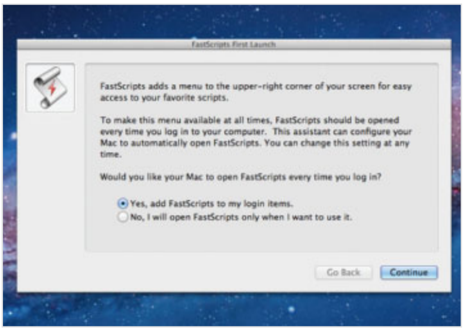
01 Get FastScripts

Safari's **Downloads** list now pops out of the toolbar, but there's no keyboard shortcut to quickly show and hide it. Red Sweater Software has made a workaround. Download *FastScripts* from **http://red-sweater.com/fastscripts** and put the app in the **Applications** folder.


Safari
Desktop
Documents
Downloads
Library
Movies
Music
Pictures
Public
ColorPickers
Colors
Compositions
Cookies
Favorites
FontCollections
Fonts
iMovie
Input Methods
Internet Plug-Ins
Keyboard Layouts
Keychains
Logs
PreferencePanes
Preferences
Printers
PubSub
Safari
Saved A...tion State
Screen Savers
Applications
Safari

02 Download the script

Get the script linked at **http://tinyurl.com/3dmxtac**. In the *Finder*, hold ⌥ and choose Go > Library. If a **Scripts** folder doesn't exist, create it. Inside that you'll need another folder called **Applications**, and another inside that called *Safari*. Put the script here.


FastScripts First Launch
Go Back
Continue

FastScripts adds a menu to the upper-right corner of your screen for easy access to your favorite scripts.

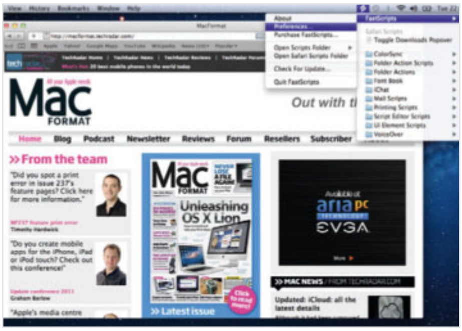
To make this menu available at all times, FastScripts should be opened every time you log in to your computer. This assistant can configure your Mac to automatically open FastScripts. You can change this setting at any time.

Would you like your Mac to open FastScripts every time you log in?

● Yes, add FastScripts to my login items.
○ No, I will open FastScripts only when I want to use it.

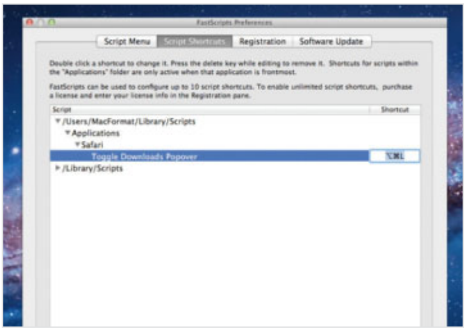
03 Configure FastScripts

Open *FastScripts* from the **Applications** folder. It will ask whether you want it to be added to your login items. Allow it to make this change so that the shortcut you'll set up in a moment will always work whenever *Safari* is the foreground application.


MacFormat
About
Preferences
Purchase FastScripts...
Open Scripts Folder
Open Safari Scripts Folder
Check For Update...
Quit FastScripts
Toggle Downloads Popover
From the team
Out with the
Latest issue

04 Check it's installed

FastScripts sits in the status area of the menu bar. With a *Safari* window in front, click it and check you can see **Toggle Downloads Popover** in the list, then choose FastScripts > Preferences…. The script needs a keyboard shortcut if it's to be useful.


FastScripts Preferences
Script Menu
Script Shortcuts
Registration
Software Update
Script
Shortcut

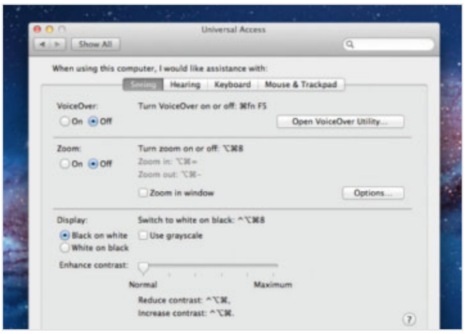
Double click a shortcut to change it. Press the delete key while editing to remove it. Shortcuts for scripts within the "Applications" folder are only active when that application is frontmost.

FastScripts can be used to configure up to 10 script shortcuts. To enable unlimited script shortcuts, purchase a license and enter your license info in the Registration pane.

Script	Shortcut
▼ /Users/MacFormat/Library/Scripts	
▼ Applications	
▼ Safari	
Toggle Downloads Popover	⌥⌘L
▶ /Library/Scripts	

05 Assign a shortcut

Click **Script Shortcuts**. Two folders will be listed below. Expand the one for your user folder until you see **Toggle Downloads Popover**. In that row, double-click in the **Shortcut** column and press the combination you want to use. Previously it was ⌘+⌥+L.


Universal Access
Show All
Seeing
Hearing
Keyboard
Mouse & Trackpad
Open VoiceOver Utility...
Options...
Normal
Maximum

When using this computer, I would like assistance with:

VoiceOver: ○ On ● Off
Turn VoiceOver on or off: ⌘fn F5

Zoom: ○ On ● Off
Turn zoom on or off: ⌥⌘8
Zoom in: ⌥⌘=
Zoom out: ⌥⌘-
☐ Zoom in window

Display: ● Black on white ○ White on black
Switch to white on black: ^⌥⌘8
☐ Use grayscale
Enhance contrast:
Reduce contrast: ^⌥⌘,
Increase contrast: ^⌥⌘.

06 One more thing

In System Preferences > Universal Access turn on **Enable access for assistive devices**. Switch to *Safari* to check that the shortcut is set up correctly to reveal or hide the downloads list. You can now monitor downloads in progress without moving the pointer. ●

choosing **Show Package Contents** and opening **Contents/info.plist**) allows an individual application to override your choice, so you can retain the helpful shortcut in your word processor.

Lion can spell

Wondering why your last tweet or Facebook status contains a word you didn't type? Lion's automatic spelling correction probably kicked in. Its inclusion in iOS inspired the mocking **damnyouautocorrect.com** website. If you find that it grates after a while, you can disable it in System Preferences > Language & Text > Text > Check spelling automatically.

Lion remembers what was open when you quit many apps, including *Safari* and *QuickTime*, and brings it back the next time you use the app. You can force it to forget things by quitting with ⌘+⌥+Q instead. The feature can be turned off in System Preferences > General > Restore windows when quitting and re-opening apps.

"Resume works great with an SSD, but not so well with a hard drive and many open apps. It can be suppressed…"

That setting doesn't affect **Resume**, which restores things the next time you log in. This feature works great with an SSD, but not so well with a hard drive and many open apps. It can be suppressed by unticking a box when logging out, restarting or shutting down via the menu, but that option doesn't appear if you use ⌘+ctrl+⏏ or ⌘+⌥+ctrl+⏏ to restart or shut down. If so, create a new **Service** in *Automator*. Set it to receive no input from any app. When you're ready to log out, first click the application menu > Services > Quit All Apps to ensure **Resume** won't bring anything back.
Alan Stonebridge

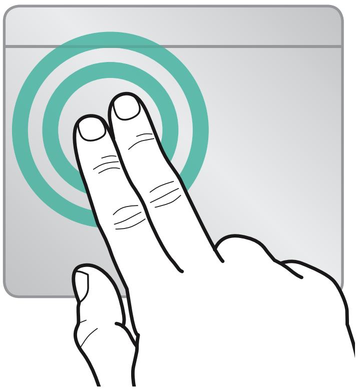
QUICK TIP

Safari's **Reading List** will sync with iOS via iCloud, but it's useless if you use *Instapaper*. Safari > Preferences > Bookmarks > Reading List can be turned off.

Discover Lion's new gestures

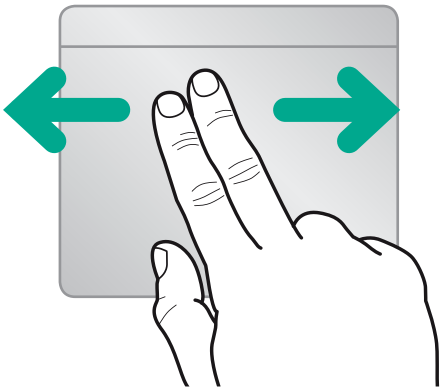
Control your Mac with the brand new multi-touch gestures in OS X 10.7

HOW TO / Use gestures on a Magic Trackpad



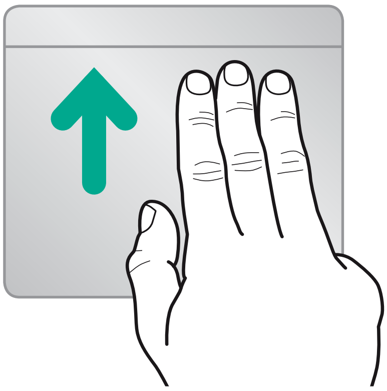
Two-finger double-tap

Double-tap twice with two fingers to zoom in on the part of a website or document where your pointer is. Apple calls this Smart Zoom, since it looks at where you've tapped and zooms in to give you the best possible view of that area. So if you're looking at a multi-column website, Smart Zooming on one of these will focus on that column.



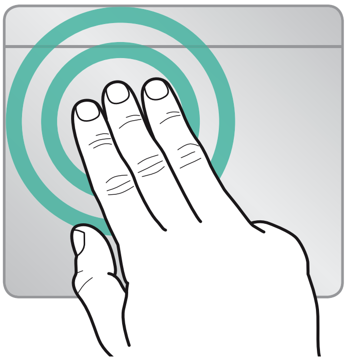
Two-finger swipe

Rest two fingers on your trackpad and swipe them to the left to move back to the previous page in *Safari*, or the preceding page in a document you're looking at (in *Preview*, for example). Swiping to the right has the opposite effect – like pressing your web browser's **Forward** button or going to the next page in a document.



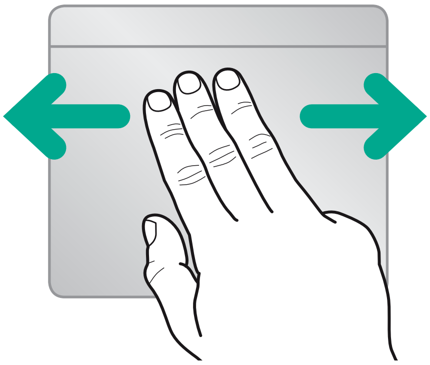
Three-finger swipe up

Lay three fingers alongside each other on your trackpad and swipe them upwards to bring up Mission Control, Lion's nerve centre. From here, click through to one of your running apps, your Mac's *Dashboard* or any open windows. Alternatively, swipe three fingers upwards or downwards to jump back to the app you were using initially.



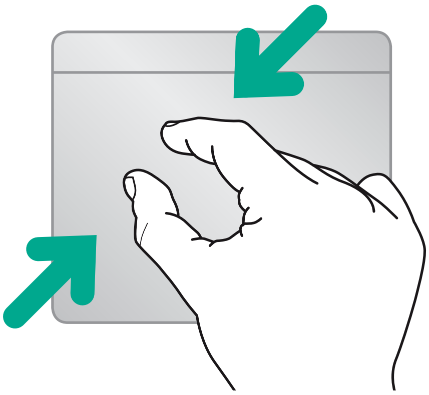
Three-finger double-tap

Move your mouse pointer over a word in a text document, email or website. Now double-tap on your trackpad with three fingers. The word you're pointing at will be highlighted and a dictionary definition and thesaurus entry pops up alongside it. This gesture works as a truly fantastic timesaver when you come across words you don't understand.



Three-finger swipe left/right

Place three fingers on your trackpad and swipe to the left or right to move between your desktop spaces, full-screen apps and *Dashboard*. As you swipe left or right, you'll see the next application gradually slide into view. If the ordering of the apps becomes confusing, you can get a quick overview of things by looking at the top row of Mission Control.



Pinch to zoom

To zoom in on something, say a photo or web page, place your thumb and index finger close together and spread them apart. To zoom out again, pinch the same two digits back together. If you've ever used an iPhone, iPad or iPod touch, this gesture will be familiar, and can be used really effectively with two-finger scrolling to move around.

Controlling your Mac using multi-finger gestures on a trackpad or Magic Mouse is one of OS X Lion's key features, yet remembering all the options can be tricky at first. Why not keep this special guide by your Mac as a reminder?

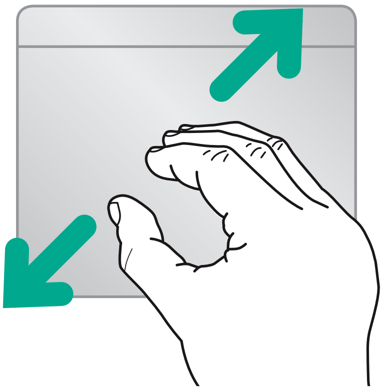
We've focused on the new gestures, but remember that those you used in Snow Leopard, such as dragging two fingers up and down your trackpad to scroll, will still work.

Note that when we talk about 'tapping' your mouse or trackpad, we mean tapping, as opposed to actually clicking the button down. To change gesture settings, see the Mouse and Trackpad panes in *System Preferences*.

Laurence Cable

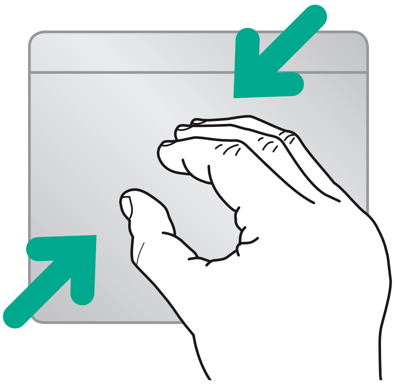
HOW TO / Gesture

To use multi-touch gestures, you'll need a Magic Mouse or Magic Trackpad, a MacBook Air (all models), white MacBook (Late 2009 and newer), aluminium unibody MacBook or MacBook Pro (Early 2008 and newer).



Four-finger spread

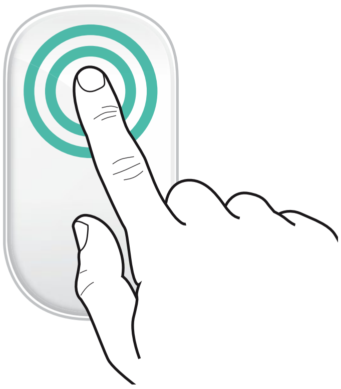
This one's brilliantly intuitive and tactile. Place your thumb, index, middle and ring fingers close together on the trackpad and spread them outwards. You'll see all the windows on your screen fly off to the edges, revealing your desktop. Drag the same four fingers back together to pull them all back again. This will work left or right-handed.



Four-finger pinch

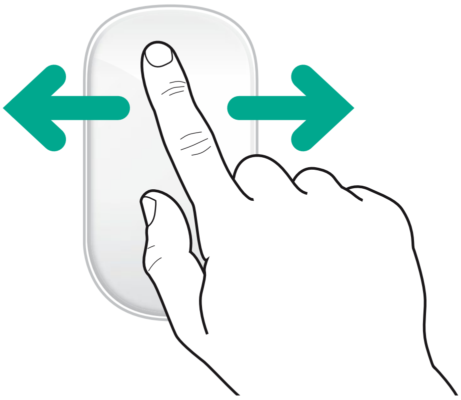
Place your thumb and first three fingers slightly apart on the trackpad, then pinch them all together. This will bring up Launchpad, the iPhone- or iPad-like screen that contains all the apps you've got installed on your Mac. Click the app you want to open, or leave Launchpad again by spreading the same four fingers outwards on your trackpad.

HOW TO / Use gestures on a Magic Mouse



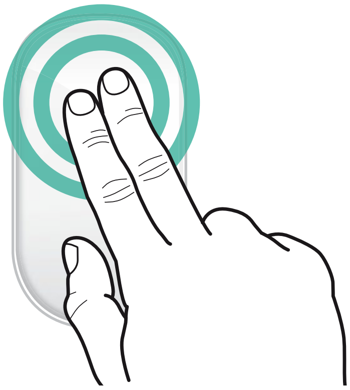
One-finger double-tap

Tap the top of your Magic Mouse twice to zoom in on the part of a website or document where your pointer is. Apple calls this Smart Zoom, since it looks at where you've tapped and zooms in to give you the best possible view of that area. So if you're looking at a multi-column website, Smart Zooming on one of these will show you that column.



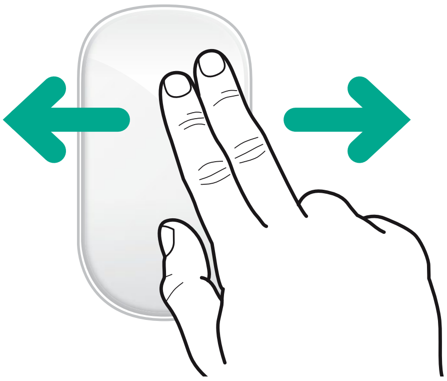
One-finger swipe

Lay one finger on top of your Magic Mouse and swipe it to the left to move back to the previous page in *Safari*, or the preceding page in a document you're looking at (in *Preview*, for example). Swiping to the right has the opposite effect – like pressing your web browser's Forward button or going to the next page in a document.



Two-finger double-tap

Double-tap two fingers on top of your Magic Mouse to bring up Mission Control, Lion's nerve centre. From here, you can either click through to one of your running apps, your Mac's *Dashboard* or any open windows. Alternatively, double-tap two fingers on your mouse again to jump back to the app you were using initially.



Two-finger swipe

Place two fingers on your Magic Mouse and swipe to the left or right to move between your desktop spaces, full-screen apps and *Dashboard*. As you swipe left or right, you'll see the next app gradually slide into view. If the ordering of the apps becomes confusing, you can get a quick overview of things by looking at the top row of Mission Control. ●

Get to grips with Mail in Lion

Find out how the new features can make your life easier

>> KEY INFO

DIFFICULTY
Beginner

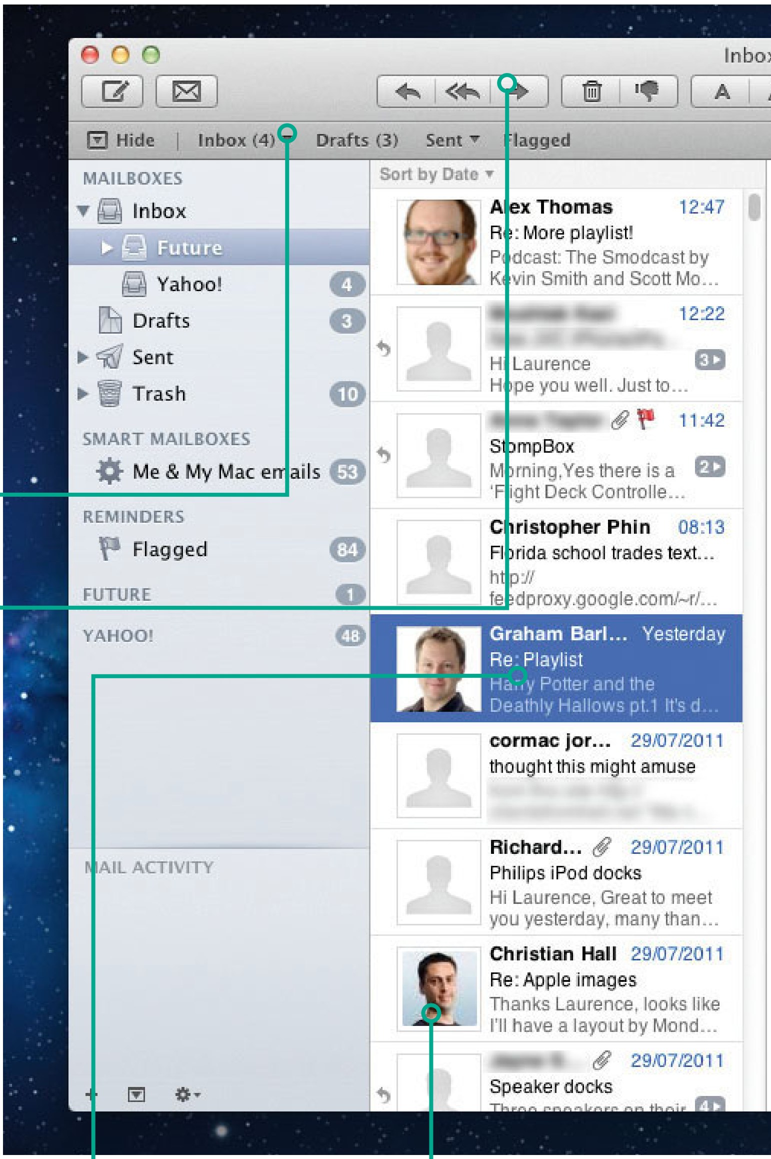
TIME NEEDED
15 minutes

WHAT YOU'LL NEED
OS X Lion

Apple's *Mail* app has been given a bit of an overhaul in OS X Lion, bringing in new features designed to help you send and read emails more efficiently and enjoyably than ever before. We're going to take you on a quick guided tour of the new app, highlighting the new features and explaining how they can help you with your day-to-day emailing.

Don't be put off by the fact it looks different from what you're used to in Snow Leopard, because underneath, it's much the same, and you can adjust the way it works to suit your needs.

Laurence Cable



Alex Thomas 12:47
Re: More playlist!
Podcast: The Smodcast by Kevin Smith and Scott Mo…

[redacted] 12:22
[redacted]
Hi Laurence 3
Hope you well. Just to…

[redacted] 11:42
StompBox
Morning,Yes there is a 2
'Flight Deck Controlle…

Christopher Phin 08:13
Florida school trades text…
http://
feedproxy.google.com/~r/…

Graham Barl… Yesterday
Re: Playlist
Harry Potter and the Deathly Hallows pt.1 It's d…

cormac jor… 29/07/2011
thought this might amuse
[redacted]

Richard… 29/07/2011
Philips iPod docks
Hi Laurence, Great to meet you yesterday, many than…

Christian Hall 29/07/2011
Re: Apple images
Thanks Laurence, looks like I'll have a layout by Mond…

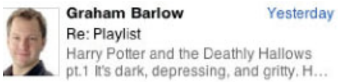
[redacted] 29/07/2011
Speaker docks
Three speakers on their… 4

Favourites bar

As with *Safari*'s bookmarks bar, *Mail* now lets you store favourite folders and smart mailboxes just below the toolbar for quick access. This is especially useful if you like working with the left-most folder column hidden, because you'll still be able to switch between, say, your Inbox and Sent folders with ease. To add folders or mailboxes, drag them to this bar.

New-look toolbar

Mail's toolbar had been given a monochrome makeover. The options you have there are largely the same as before, but any customisations you made under Snow Leopard may have been forgotten. Right-click the toolbar and you can choose to add text labels to the buttons, or choose Customize Toolbar… and drag additonal buttons to the toolbar. You can do the same in a New Message window.

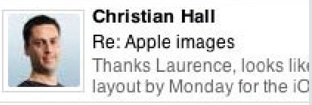


Graham Barlow Yesterday
Re: Playlist
Harry Potter and the Deathly Hallows pt.1 It's dark, depressing, and gritty. H…

Message previews

Previously, a message's subject was your only clue as to its contents when you were looking at the list of messages. But now you get a short preview of the message in the listing, which is incredibly useful, especially if you've received several messages from the same person in quick succession. If you want to alter how long a preview you see, to Mail > Preferences > Viewing > List Preview.

Sender photos



Christian Hall
Re: Apple images
Thanks Laurence, looks lik
layout by Monday for the iO

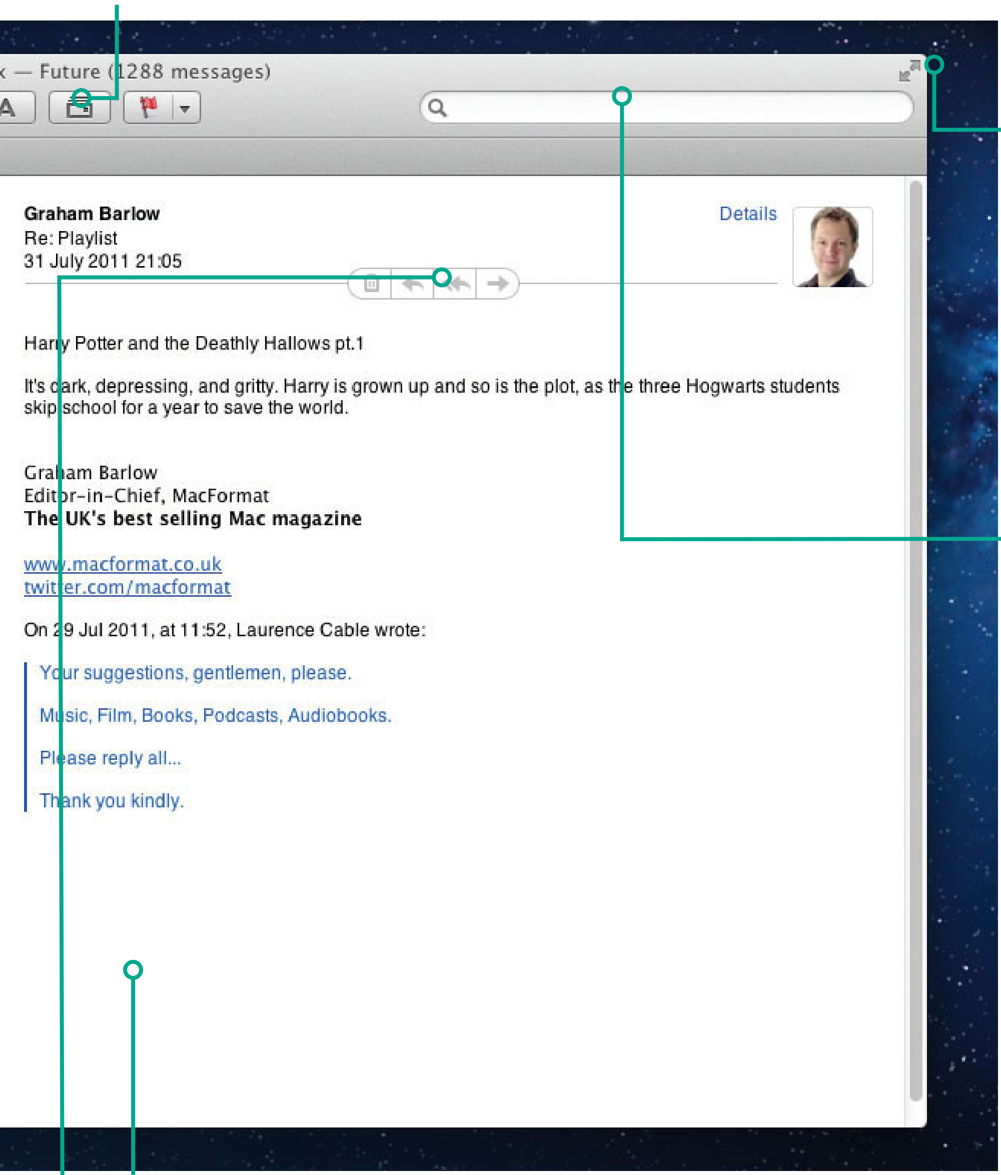
When you add someone to your *Address Book*, you have the option to include a picture to represent them. This image can then be displayed alongside messages from that person in your mailboxes, making finding a particular message even easier. You switch this on in Mail > Preferences > Viewing by ticking Show contact photos in the message list.

Quick controls

Hover your pointer over the grey line just below the details at the top of a message, and you'll see a little bar of controls appear. From left to right, they enable you to delete the message, reply to the sender, reply to everyone involved or forward it. A subtle improvement, but it'll save you plenty of trips to your keyboard or the toolbar as you work.

Related messages

When you've got a conversation spread out across several emails, going back over all the messages to see what's been said takes time. *Mail* can now group messages from the same conversation so you can read the whole thing in chronological order in one place. This system isn't foolproof, though – we've had it group several things incorrectly.



— Future (1288 messages)

Graham Barlow
Re: Playlist
31 July 2011 21:05

Harry Potter and the Deathly Hallows pt.1

It's dark, depressing, and gritty. Harry is grown up and so is the plot, as the three Hogwarts students skip school for a year to save the world.

Graham Barlow
Editor-in-Chief, MacFormat
The UK's best selling Mac magazine

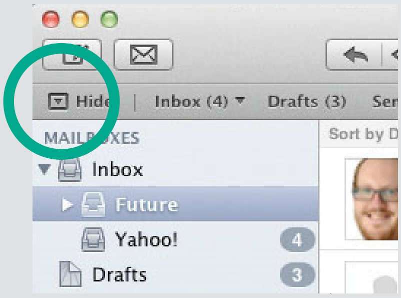
www.macformat.co.uk
twitter.com/macformat

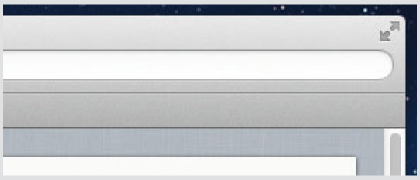
On 29 Jul 2011, at 11:52, Laurence Cable wrote:

> Your suggestions, gentlemen, please.
>
> Music, Film, Books, Podcasts, Audiobooks.
>
> Please reply all...
>
> Thank you kindly.

New column layout

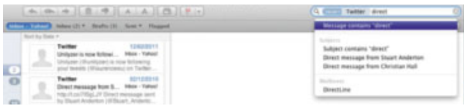
In Snow Leopard there was a column down the left showing mail folders. The right-hand part of the window was divided horizontally into a list of your messages at the top and the reading area below. The folder list is now hidden by default, but can easily be switched on and off with the **Show/Hide** button at the top.





Full screen button

Like *Safari*, *iCal* and other key OS X Lion apps, *Mail* has been designed to work in full screen. Click this button, or press ctrl+⌘+F to make *Mail* fill your screen and hide the menu bar. This is a distraction-free environment, but it has its limits. For example, when you create a new message in full-screen mode, you're stuck in the new message window until you send, save or discard it. To leave full screen, press the same key combination again, or move your mouse to the top of the screen to make the menu bar reappear, then click the button in the top-right.



Searching

Finding emails from way back just got easier. As you type into *Mail*'s Search bar, you see real-time results appear, but also a drop-down, which enables you to refine your search as you go along. This creates what's called a search token: a filter that appears in the Search bar. You then type in another search term to further filter results. Note the Favourites bar alters to provide more ways to narrow your search.

>> KEYBOARD SHORTCUTS

The keyboard shortcuts you use in *Mail* are the same as in Lion, but here's a quick run-down of the most useful ones for you to cut out and keep.

⌘+N	New message
⌘+R	Reply
⌘+⇧+R	Reply to all
⌘+⇧+F	Forward
⌘+⇧+Y	Add sender to Address Book
⌘+⌫	Delete message
⌘+Y	Quick Look attachments
⌘+⇧+N	Check for new mail
⌘+⇧+D	Send message
⌘+T	Show fonts window
⌘+=	Increase font size
⌘+-	Decrease font size

Discover Safari's new features

Get the most out of your Mac's web browser in Lion

»KEY INFO

DIFFICULTY
Beginner

TIME NEEDED
20 minutes

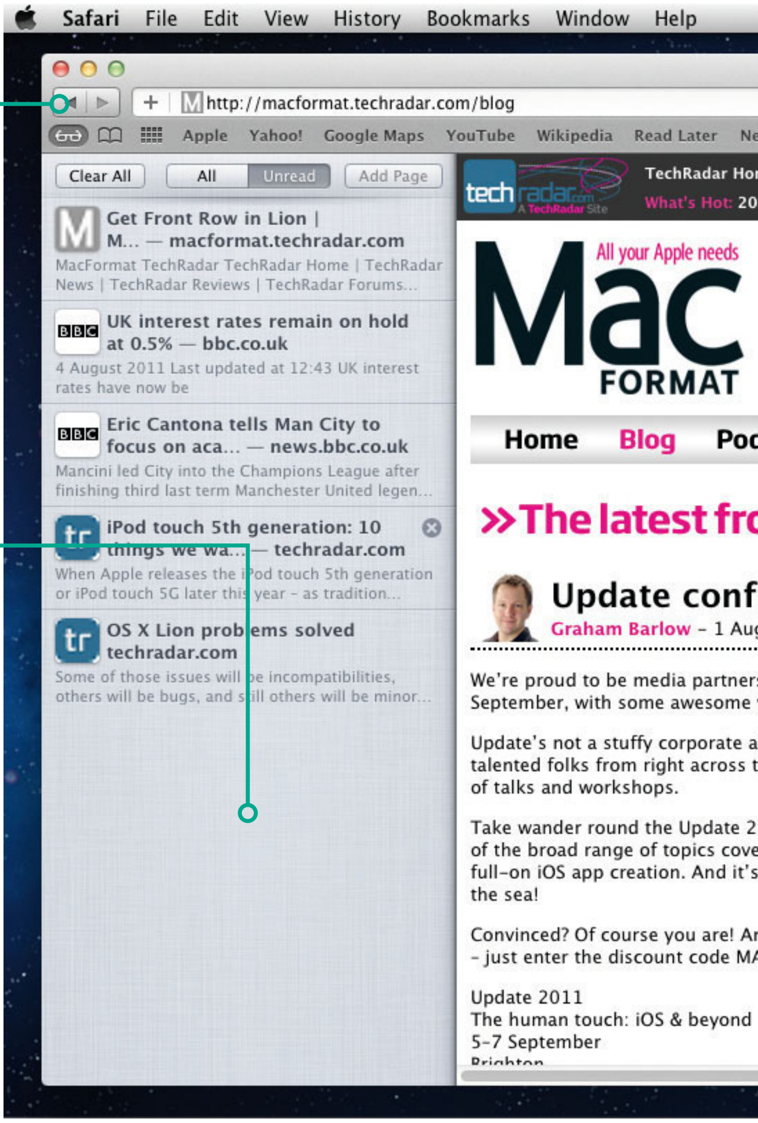
WHAT YOU'LL NEED
OS X Lion, internet connection

Open up *Safari* under Lion and it looks much the same as it did under Snow Leopard. But Apple's web browser has seen a raft of improvements and tweaks, designed to give you a faster and more intuitive way to look at your favourite sites.

We're going to take a look at the key changes and explain why they're good news for you. Because no matter what you use the internet for, the new *Safari*'s sure to make it even more enjoyable.

You'll find *Safari*'s compass icon in your Mac's Dock, in Launchpad or in your **Applications** folder. Open it and explore our guided tour.

Laurence Cable


Safari File Edit View History Bookmarks Window Help
http://macformat.techradar.com/blog
Apple Yahoo! Google Maps YouTube Wikipedia Read Later Ne
Clear All
All
Unread
Add Page
TechRadar Ho
What's Hot: 20
All your Apple needs
Mac FORMAT
Home Blog Poc
»The latest fr

Get Front Row in Lion | M... — macformat.techradar.com
MacFormat TechRadar TechRadar Home | TechRadar News | TechRadar Reviews | TechRadar Forums...

UK interest rates remain on hold at 0.5% — bbc.co.uk
4 August 2011 Last updated at 12:43 UK interest rates have now be

Eric Cantona tells Man City to focus on aca... — news.bbc.co.uk
Mancini led City into the Champions League after finishing third last term Manchester United legen...

iPod touch 5th generation: 10 things we wa... — techradar.com
When Apple releases the iPod touch 5th generation or iPod touch 5G later this year – as tradition...

OS X Lion problems solved techradar.com
Some of those issues will be incompatibilities, others will be bugs, and still others will be minor...

Update conf
Graham Barlow – 1 Au

We're proud to be media partner September, with some awesome

Update's not a stuffy corporate a talented folks from right across t of talks and workshops.

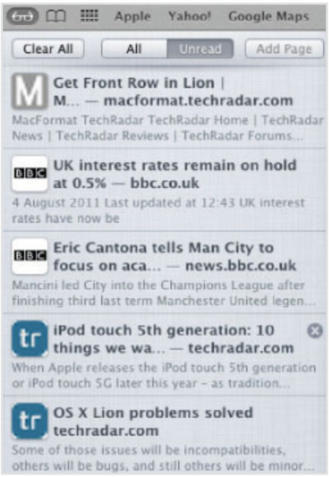
Take wander round the Update 2 of the broad range of topics cove full–on iOS app creation. And it's the sea!

Convinced? Of course you are! Ar – just enter the discount code MA

Update 2011
The human touch: iOS & beyond
5–7 September
Brighton

Reading List

When you find an article on a website that you want to read, but don't have the time to, add it to your **Reading List** to peruse later. Click its glasses icon to make your list appear, then click **Add Page** to store the page you're currently looking at, or hold ⇧ and click a link to send it to your **Reading List**. At present, it's essentially just a bookmarking system, because pages aren't stored on your Mac to read later offline, nor are they currently synced to your iPad or iPhone. However, when iOS 5 and iCloud launch, you'll be able to keep things in sync.



Get Front Row in Lion | M... — macformat.techradar.com
MacFormat TechRadar TechRadar Home | TechRadar News | TechRadar Reviews | TechRadar Forums...

UK interest rates remain on hold at 0.5% — bbc.co.uk
4 August 2011 Last updated at 12:43 UK interest rates have now be

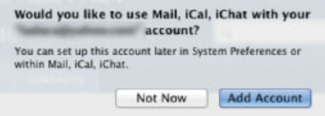
Eric Cantona tells Man City to focus on aca... — news.bbc.co.uk
Mancini led City into the Champions League after finishing third last term Manchester United legen...

iPod touch 5th generation: 10 things we wa... — techradar.com
When Apple releases the iPod touch 5th generation or iPod touch 5G later this year – as tradition...

OS X Lion problems solved techradar.com
Some of those issues will be incompatibilities, others will be bugs, and still others will be minor...

Set up email accounts

The first time you sign into an AOL, Yahoo Mail or Gmail account in *Safari*, it will ask you if you want to set that email address up in the *Mail* app. You won't need to do anything complicated like type in server address details – all the hard work is done for you, and from this point on, you'll be able to do all your emailing from *Mail*. However, we'd only recommend you do this on your own computer, not on public or shared machines!


Would you like to use Mail, iCal, iChat with your [redacted] account?

You can set up this account later in System Preferences or within Mail, iCal, iChat.

Under the hood improvements

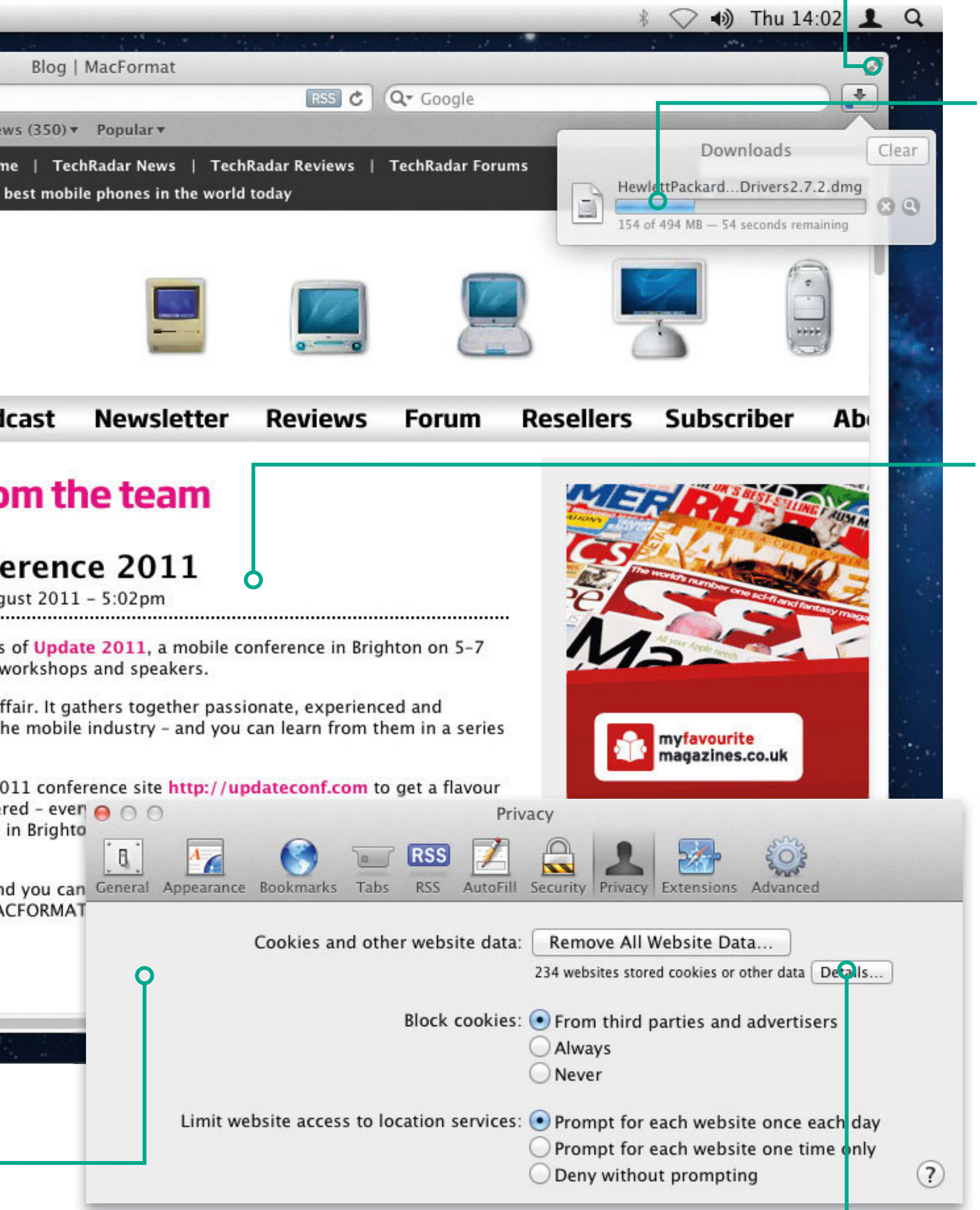
All your web browsing should feel snappier and be more robust, thanks to a host of hidden improvements that have been made to the way *Safari* works. So, for example, if one site gets stuck and refuses to load, it won't hold the whole of *Safari* up, leaving you free to keep browsing the web. Graphics have also been given a boost, and changes have been made to the way *Safari* handles video and audio, so that it should work better on slow connections.

New privacy settings

Keeping your personal data safe and secure is vital, and there are various ways that *Safari* can help you protect yourself. Firstly, **Privacy** has been given its own pane in *Safari*'s preferences (go to Safari > Preferences). Here, you can change the way *Safari* handles cookies (the little bits of information that websites can store on your Mac) and also whether it allows sites access to your location details.

Full-screen mode

Do away with the distractions of other apps and browse the web in peace, by going into full-screen mode in *Safari*. Click the button in the top-right corner of the window to go full screen or press ⌘+ctrl+F. Remember you can swipe sideways with three fingers to move between full-screen apps, and note that if you create a new *Safari* window in full-screen mode, you'll need to swipe between it and any other *Safari* windows you've got open. To come out of full-screen, move your pointer to the top of the screen to make the menu bar reappear and then click the button in the top-right corner.


Thu 14:02
Blog | MacFormat
RSS
Google
Popular
TechRadar News | TechRadar Reviews | TechRadar Forums
best mobile phones in the world today
Downloads
Clear
HewlettPackard...Drivers2.7.2.dmg
154 of 494 MB — 54 seconds remaining
Newsletter
Reviews
Forum
Resellers
Subscriber
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gust 2011 – 5:02pm
myfavourite magazines.co.uk
General
Appearance
Bookmarks
Tabs
RSS
AutoFill
Security
Privacy
Extensions
Advanced

Privacy

Cookies and other website data: Remove All Website Data…

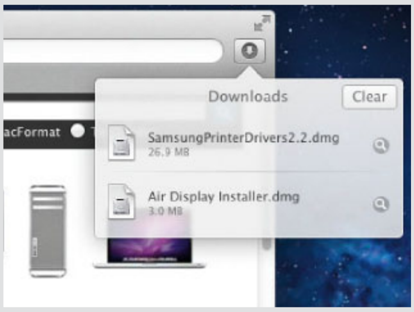
234 websites stored cookies or other data Details…

Block cookies:
● From third parties and advertisers
○ Always
○ Never

Limit website access to location services:
● Prompt for each website once each day
○ Prompt for each website one time only
○ Deny without prompting

Manage website data

The **Privacy** pane also enables you to see what websites are storing information on your computer. This information can be used to track your browsing. To remove it on a site-by-site basis, click **Details…** select what you want to delete and click **Remove**. You can also click **Remove All** to clear the whole list. Note that the **Reset Safari** option in the **Safari** menu no longer has the effect of removing cookies: you must now do this in the **Privacy** pane.

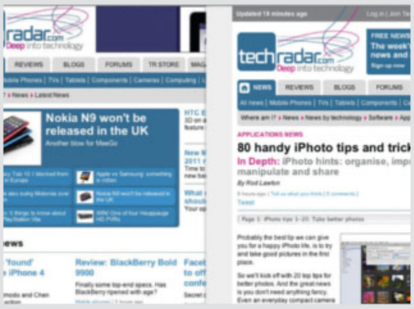

Downloads
Clear
SamsungPrinterDrivers2.2.dmg
26.9 MB
Air Display Installer.dmg
3.0 MB

New downloads pane

When you download a file or app in *Safari*, its icon will fly up into the toolbar next to the Search bar. This new button is the downloads pane, which pops up when you click it. Note that you can only view the **Downloads** pane if you have current or completed downloads. Once you click **Clear**, the list will vanish.

Pinch and double-tap to zoom

Can't quite read something on a website? Zooming in on it is now easier than ever, thanks to two new gestures. If you have a Magic Mouse, move your pointer arrow over the area you want to zoom in on and tap (don't click!) the mouse twice to zoom in. Do this again to zoom back out. With a trackpad, you can either double-tap with two fingers to zoom in and out, or pinch and unpinch, like you would on an iPad or iPhone.


techradar
Nokia N9 won't be released in the UK
80 handy iPhoto tips and tricks

Swipe to navigate

Flick back and forwards between web pages without going near the toolbar, thanks to more new gestures. On a Magic Mouse, swipe one finger from left to right to go back, or the other way to go forward again. On a trackpad, swipe two fingers from left to right to go back, and vice versa to move forward. As you swipe, you'll see the next or previous page slide into view.

Create a Lion boot drive

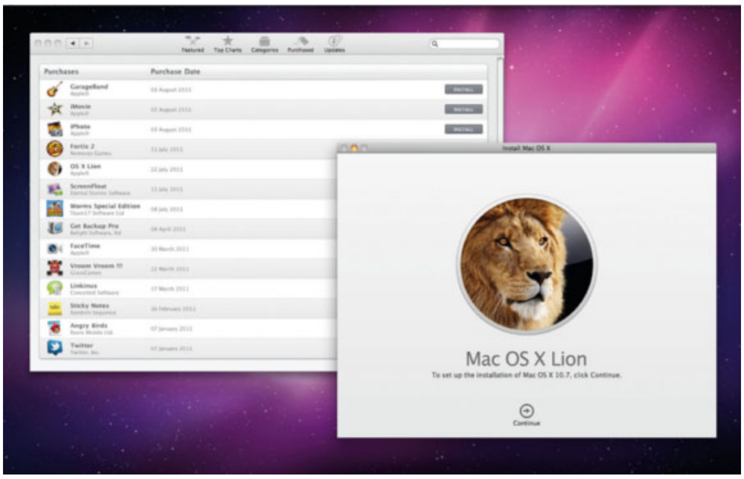
Make a Lion installer disc or drive for internet-free OS X installation in future

>> KEY INFO

DIFFICULTY
Intermediate

TIME NEEDED
An hour

WHAT YOU'LL NEED
The Lion installer, a blank DVD and/or an external USB drive. If you no longer have the Lion installer, you'll need your Snow Leopard install disc.


Purchases
Purchase Date
Mac OS X Lion
To set up the installation of Mac OS X 10.7, click Continue.
Continue

After downloading Lion, the installer starts automatically. But don't install it yet...

Unlike previous versions of Mac OS X, Lion isn't delivered on physical media. Instead, you buy and download it from Snow Leopard's Mac App Store. But what if you want to do a clean install, boot from an optical or external drive or install Lion on all your Macs (which is perfectly legal) without downloading it over and over again? Thankfully, there's a way of creating a boot drive, either on a DVD or an external USB or FireWire drive. Administrator privileges are needed, so make sure you have your password handy.

First of all, purchase and download Lion from the Mac App Store. When it's finished downloading, an app called 'Install Mac OS X Lion' appears in your **Applications** folder and your Dock. It runs automatically, but instead of following the on-screen instructions to install the new operating system, quit the installer; you can run it again later by clicking on its Dock icon, as you would any other application.

Show Package Contents

Find the 3.76GB **Install Mac OS X Lion** file located in your **Applications** folder. Right-click the icon and **select Show Package Contents**. In the *Finder* window that opens, navigate to Contents > SharedSupport, and copy the file **InstallESD.dmg** by moving it to another location while holding the ⌥ key. You can then follow the steps outlined on the opposite page to create a bootable USB drive or DVD.

iTunes
LAURA MARLING
A CREATURE I DON'T KNOW
the Album and Get the Single NOW
Albums
Personal
Hardware
Internet & Wireless
System
Other

By following this tutorial you can make your own bootable Lion drive.

"What if you want to do a clean install of Lion without having to download it over and over again?"

After installing Lion, the **Install Mac OS X Lion** file disappears, and you can't download it again through the App Store; if you open your **Purchased** tab, you find the option is greyed because Lion's already installed. If you have access to a Mac that's still running Snow Leopard, use it to open the Mac App Store and sign in. You can then download it through the **Purchased** tab without paying again. If not, you must create a Snow Leopard drive to boot from.

First, find an external hard drive and connect it to your Mac. Make sure there's nothing on there you want to keep, then open *Disk Utility*. Select the drive from the left-hand column, open the **Erase** tab and select **Mac OS Extended (Journaled)** from the **Format** tab. Name it whatever you like, and press **Erase** to wipe and format it.

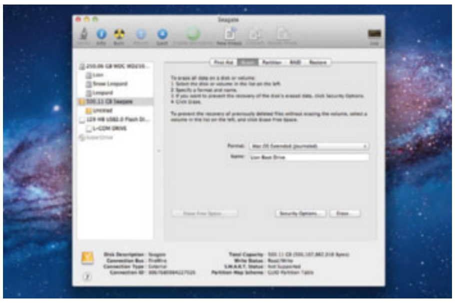
Time to restart

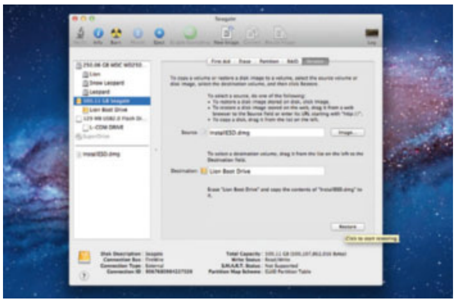
With your Snow Leopard install disc in the optical drive, restart your Mac with the ⌥ key held down. Choose to boot from **Mac OS X Install DVD**, and when instructed, install Snow Leopard on the external drive. After your Mac reboots from the newly installed version of Snow Leopard, follow the on-screen prompts to set it up, as you would a new Mac. Update to 10.6.8 using *Software Update*, and open the Mac App Store. Sign in, and select the **Purchased** tab. Lion is available to download; you won't have to pay for it again. When it's finished downloading, the installer starts automatically. Quit it and extract **InstallESD.dmg** from the **Install Mac OS X Lion** file found in **Applications**, as described above.

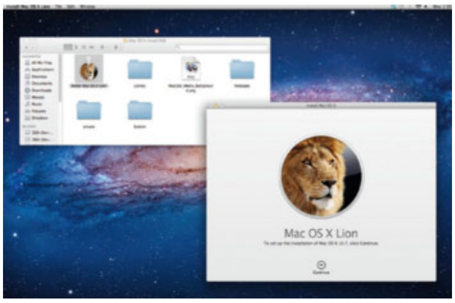
If you wish to boot back into Lion before finishing the tutorial, you can; simply restart your Mac holding ⌥, and this time choose your main hard drive. The Lion installer you just downloaded can then be found by navigating to the external drive's **Applications** folder.

Ian Osborne

HOW TO / Make an install drive and perform a clean install






Mac OS X Lion

01 Create a USB boot drive

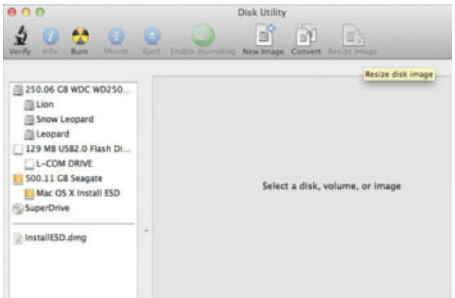
First, find a USB (or if you prefer, FireWire) drive of at least 5GB in size. You can use an external hard disk drive or a flash drive; it doesn't matter which, as long as it's formatted to **Mac OS Extended (Journaled)**. If it isn't, reformat it using *Disk Utility*.

02 Restore the disk image

In *Disk Utility*, click on the **Restore** tab. Drag the **InstallESD.dmg** file you extracted from the Lion installer application earlier into the **Source** field. Drag the drive or partition from the left-hand column into the **Destination** field. Press the **Restore** button.

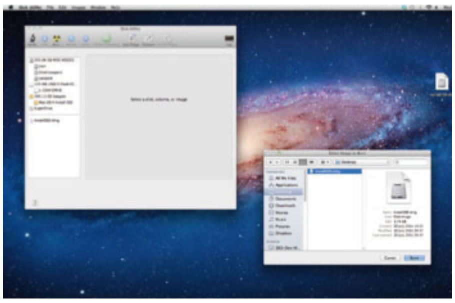
03 The finished product

When the process is complete, your external drive can be used as a Lion boot drive, and also to install Lion on other Macs. To learn how to boot from this drive, perform a clean install or just install Lion on another Snow Leopard Mac, see Steps 6-9.


Disk Utility
Verify
Info
Burn
Mount
Eject
Enable Journaling
New Image
Convert
Resize Image
Resize disk image
250.06 GB WDC WD250...
Lion
Snow Leopard
Leopard
129 MB USB2.0 Flash Di...
L-COM DRIVE
500.11 GB Seagate
Mac OS X Install ESD
SuperDrive
InstallESD.dmg
Select a disk, volume, or image

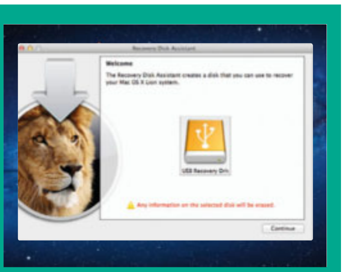
04 Create a boot DVD

The process for creating a bootable DVD is very similar, and again uses *Disk Utility* and demands the **InstallESD.dmg** file we extracted from the Lion installer. First, insert a blank DVD. Open *Disk Utility*, and press the **Burn** button on the left of the top bar.



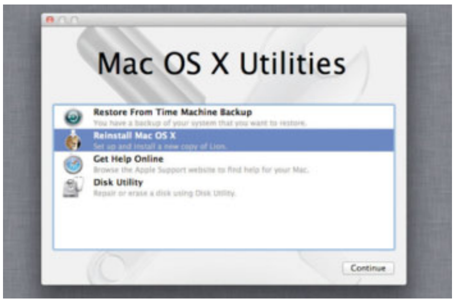
05 Burn the disc

A window opens entitled **Select Image to Burn**. In this window, navigate to and select the **InstallESD.dmg** file, and press **Burn**. A window opens in *Disk Utility* inviting you to burn the disc – do so. When it's finished, the disc is ejected. You've created a boot DVD.



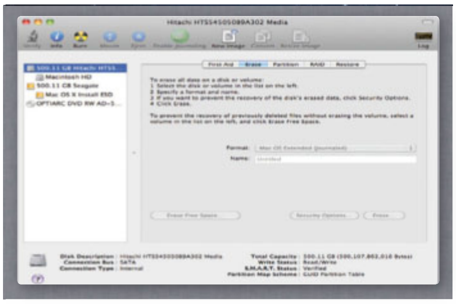
QUICK TIP

Apple's new *Lion Recovery Disk Assistant* creates a USB drive with the same features as Lion's built-in recovery disk. Download it at **http://bit.ly/oi65dJ**. It requires at least 1GB of free space and an internet connection to work.


Mac OS X Utilities
Restore From Time Machine Backup
Reinstall Mac OS X
Get Help Online
Disk Utility
Continue

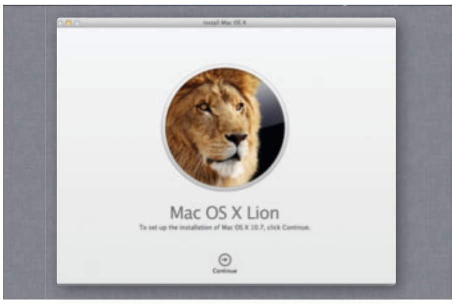
06 Use the boot disc or drive

To boot your Mac from your newly created DVD or external drive, first insert the disc or connect the drive. Restart your Mac while holding down the ⌥ key. You're given a choice of devices to boot from. Select your new boot volume and it boots to this window.



07 A clean install

To perform a clean install, select the *Disk Utility* menu from the window. Highlight your Mac's main boot drive, and erase it. Quit *Disk Utility* and from the menu window, choose **Reinstall Mac OS X**. The boot volume you created doesn't require internet access to install.

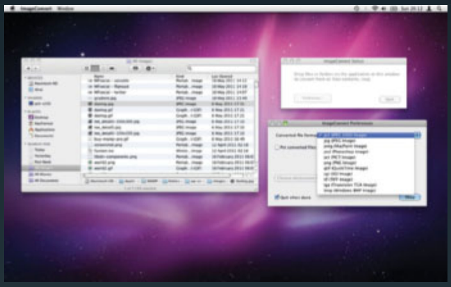

Mac OS X Lion
Continue

08 A standard install

To install Lion without erasing your Mac's hard drive, restart using your new boot volume, and select **Reinstall Mac OS X** as outlined in Step 7, but without using *Disk Utility* to wipe the boot drive. Again, you don't need to be connected to the internet to install. ●

Top 10 image ed

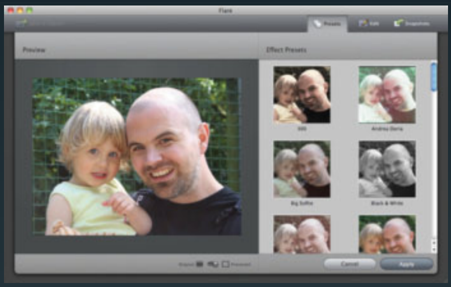
Words: Dan Oliver



ImageConvert

£Free Limit Point

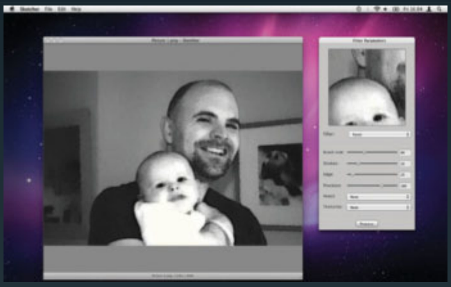
01 This is an app with no frills. No, really, there are NO frills. But then, if all you want to do is convert your photos from one format to another, you probably don't want an interface getting in the way. To convert files you select the Preferences tab, and select the format you'd like to save in (JPG, PSD, TIF, PNG and so on). Then you just drop one image, a number of selected images, or an entire folder on the *ImageConvert* dialog box. Done!



Flare

£5.99 Iconfactory

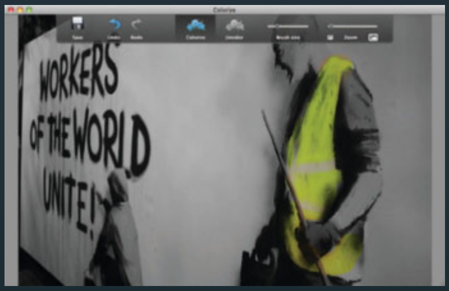
02 Many apps are available that quickly enable you to apply pre-set filters to photos. On first inspection, it's easy to assume that *Flare* is one such tool, but it offers much more. Using an interface that makes editing photos a pleasure, you can stack multiple filters, add and remove them easily, and also save them as presets. Adjust exposure, contrast, blur, midtones, colour gradient, sharpness, texture, grain, and much more. We love *Flare*!



Sketcher

£3.99 Neatberry

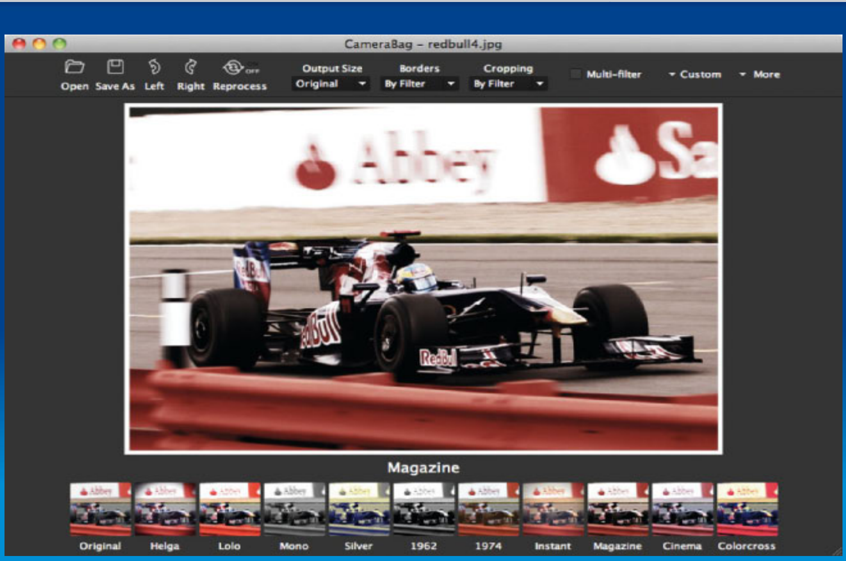
03 Creating painterly masterpieces from your photographs has never been easier, thanks to *Sketcher*. After dragging the photo you'd like to transform into the interface, you're presented with a series of sliders and drop-down menus. First, choose whether you want pencil, watercolour, pastel, oil, paint blend, or watermix. You can then edit the properties of your image, such as brush size and stroke. Finally, choose your media (crumpled paper, canvas and so on) and you're done. It's simple to use, and the results can be mightily impressive.



Colorize

£1.79 iApe

04 Despite what you might think, the extremely popular practice of selectively adding colour to a monochrome photo is a technique that existed long before digital technology. Unfortunately, it was the devil's own job to achieve. But not any more. Photo manipulators have been using layer masks to achieve this technique for a good few years, but *Colorize* makes things even easier. Add an image, have it automatically converted to black and white, and then paint over the part of the image you want in colour.



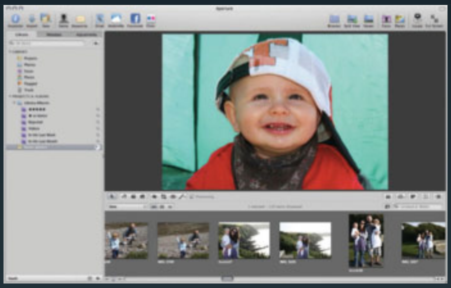
CameraBag Desktop

£8.99 Nevercenter

05 *CameraBag* is presented as a 'one-click photo lab', and it's a great way to add an extra level of creativity to even your most uninspiring images. You can apply pre-set filters, such as mono and colour-cross, combine any two filters together, pick from a selection of borders, save presets, and even batch-process entire folders of images. And thanks to the unpredictable nature of film processing, the Reprocess button can make subtle/extreme changes with one click.

iting apps

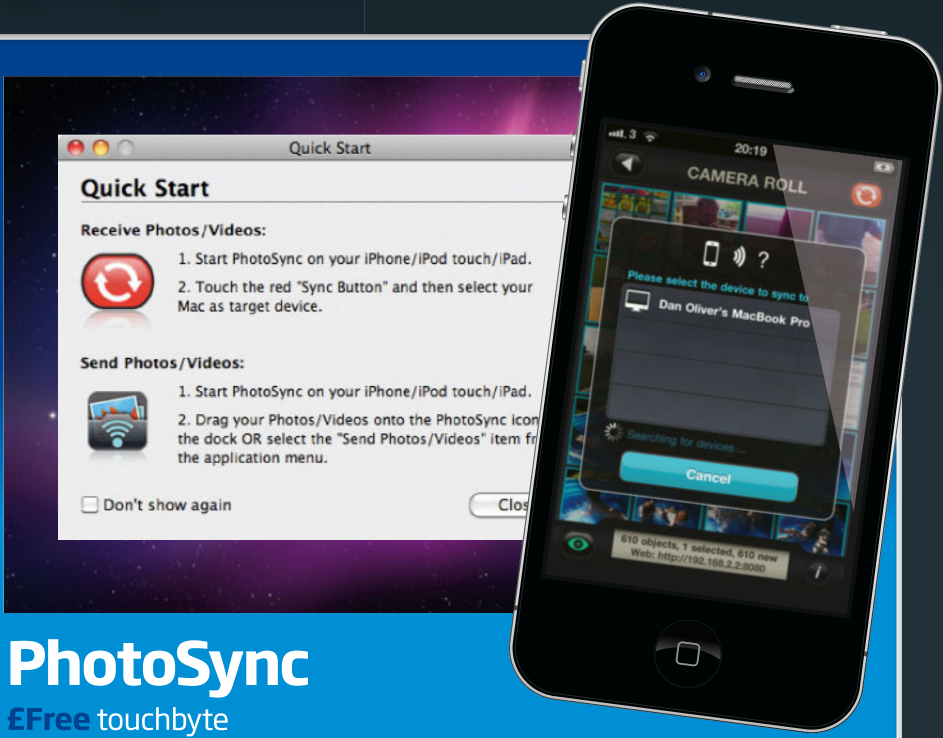
A top selection of apps on the Mac App Store for editing images



Aperture 3

£45 Apple

06 If you feel that *iPhoto* doesn't give you enough oomph, there's another photography tool from Apple that caters to those people looking for a more professional solution: *Aperture*. *Aperture* doesn't come cheap, but compared to the likes of Adobe's *Photoshop* it's a veritable bargain. Building on the ease of use and functionality of *iPhoto*, *Aperture* offers enhanced editing controls (such as selective retouching and filters); enables you to create powerful slideshows; stores multiple versions of a photo in the same file (saving space); has masses of library options; and comes with the added bonus of being able to split your library across multiple external drives (for serious snappers!).


Quick Start
CAMERA ROLL
20:19
Please select the device to sync to
Dan Oliver's MacBook Pro
Searching for devices ...
Cancel
610 objects, 1 selected, 610 new
Web: http://192.168.2.2:8080

Quick Start

Receive Photos/Videos:

1. Start PhotoSync on your iPhone/iPod touch/iPad.
2. Touch the red "Sync Button" and then select your Mac as target device.

Send Photos/Videos:

1. Start PhotoSync on your iPhone/iPod touch/iPad.
2. Drag your Photos/Videos onto the PhotoSync icon the dock OR select the "Send Photos/Videos" item fr the application menu.

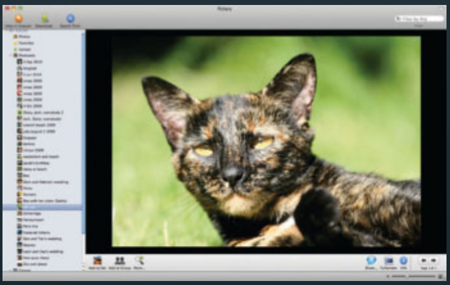
☐ Don't show again

Clos

PhotoSync

£Free touchbyte

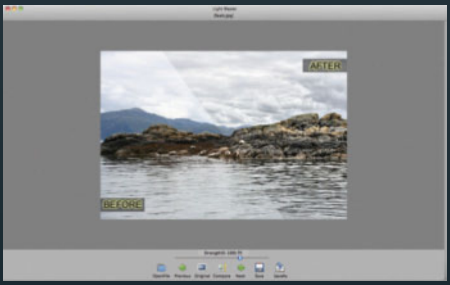
10 At the time of writing, we're not entirely sure how iCloud is going to affect *PhotoSync*, but as things stand it's currently the best way to transfer photos from your iPhone or iPad to your Mac, without the need for cables. The *PhotoSync* Mac app is free, but the companion app on iOS has a small charge. But if the ability to quickly move photos around is important to you, this is a fantastic syncing solution.



Flickery

£5.99 Eternal Storms Software

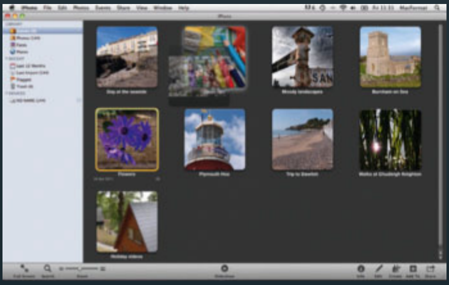
07 It's impossible to cover photography apps for the Mac without mentioning this top tool for managing photos on the web's leading online image app, Flickr. Using *Flickery*, you can easily upload, manage and move your Flickr photos. It's actually worth the cost just to be able to navigate your Flickr images in such an intuitive way, but the added functionality makes it a necessary purchase for any serious Flickr users out there.



Light Master

£Free Duan Baoping

08 The HDR (high dynamic range) photo technique enables you to get images that really pop, providing more control over the lightest and darkest areas. The purist's approach to HDR is to take multiple images at different exposures and combine them, but the effect can be achieved in-app with just one photo. Suited to landscapes, *Light Master* takes an image of your choosing, and enables you to use a slider to adjust HDR intensity.



iPhoto

£8.99 Apple

09 There's not much left to say about Apple's entry-level organiser for photos that hasn't been covered within the pages of *MacFormat*. It's must-have software for anyone starting out with digital photography on the Mac and looking for a way to easily organise and edit files. There's great Facebook and Flickr integration, a number of slideshow tools, and a new full-screen mode in *iPhoto '11*, all of which make it well worth a look.

Words: Graham Barlow, Gary Marshall, Nik Rawlinson **Photography:** Getty Images

WHAT HAPPENS TO APPLE WITHOUT STEVE?

Steve Jobs, the public face of the company, has resigned as CEO of Apple for health reasons. Although he stays on as Chairman of the Board he will no longer be involved in day-to-day operations. With Tim Cook named as the new CEO of Apple, MacFormat looks at what this means for the company we all know and love, what Steve Jobs meant to Apple, and what the future will look like without him at the helm…

The rest of the board could resign en masse and it wouldn't have half the effect on the price of Apple shares, its corporate culture or future prosperity that Jobs' own departure did last month. His resignation letter was typical Steve – both succinct and inspirational. It read:

> *To the Apple Board of Directors and the Apple Community:*
>
> *I have always said if there ever came a day when I could no longer meet my duties and expectations as Apple's CEO, I would be the first to let you know. Unfortunately, that day has come.*
>
> *I hereby resign as CEO of Apple. I would like to serve, if the Board sees fit, as Chairman of the Board, director and Apple employee.*
>
> *As far as my successor goes, I strongly recommend that we execute our succession plan and name Tim Cook as CEO of Apple.*
>
> *I believe Apple's brightest and most innovative days are ahead of it. And I look forward to watching and contributing to its success in a new role.*
>
> *I have made some of the best friends of my life at Apple, and I thank you all for the many years of being able to work alongside you.*
>
> *Steve*

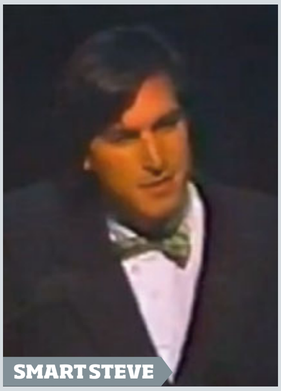
Following Steve's wishes, Tim Cook was duly elected to the board as CEO, but Apple's share price took an immediate 5% drop on Jobs' resignation, with further falls expected.

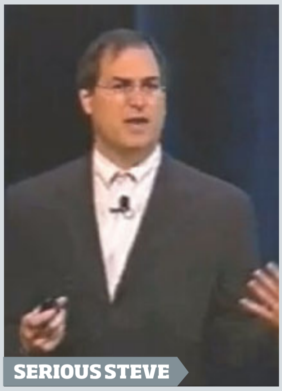
"Steve's extraordinary vision and leadership saved Apple and guided it to its position as the world's most innovative and valuable technology company," said Art Levinson, Chairman of Genentech, on behalf of Apple's Board. So, who is the man who is so pivotal to the revived company's fortunes, controls a cash balance bigger than that of the US federal state, and brought the world *Breakout* while working on games at Atari?

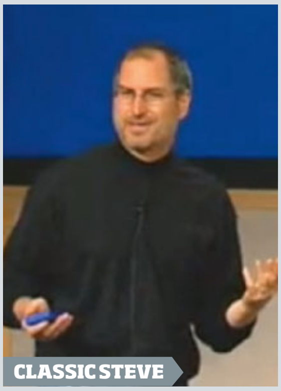
How to dress like Jobs

ESSENTIAL STEVE

Jobs is best-known for his blue jeans and black roll-neck jumper, but that hasn't always been the case


SMART STEVE


SERIOUS STEVE


CLASSIC STEVE

Steve Jobs wore smart grey slacks and a blue sports jacket to unveil the original Macintosh, setting off what might otherwise have been classic Alan Partridge attire with a green bow tie. You can see the presentation for yourself at **http://bit.ly/bif7jB**.

By 1998, when Apple unveiled the iMac, Jobs gave a long and comprehensive explanation of what that 'i' meant while striding about the stage in a smart black suit. His top button was done up, but by then he'd dropped the tie (**http://bit.ly/dCHLjn**).

Compare that to the iPod's arrival three years later. The suit, like the tie, had been left in the cupboard back home, and by now the jumper, trainer and jeans were firmly in place (**http://bit.ly/gg3u1b**).

Jobs' wardrobe is a reflection of the company's fortunes. The fitter Apple has become, the less its old leader felt the need to dress up.

Who is Steve Jobs?

Steve Jobs, 56½, and worth $8.3bn, is the most successful college dropout ever. The Disney board member and former Apple CEO spent just one semester at Reed College – the only educational establishment to have its own student-operated nuclear reactor – then gave it up to do something worthwhile.

Steve Jobs stands outside Apple Inc, 1 Infinite Loop, Cupertino, back in 1982.

Diana Walker / Contour by Getty Images

He didn't cut his ties with the college entirely but, inspired by its beautifully handcrafted posters and signs, took up a course in calligraphy.

"I learned about serif and sans-serif typefaces, about varying the amount of space between different letter combinations, about what makes great typography great," he told Stanford students in his 2005 commencement address. "Ten years later, when we were designing the first Macintosh computer, it all came back to me. And we designed it all into the Mac. It was the first computer with beautiful typography. If I had never dropped in on that single course in college, the Mac would have never had multiple typefaces or proportionally spaced fonts. And since Windows just copied the Mac, it's likely that no personal computer would have them."

The man who would one day sell Pixar to Disney wasn't born into money. The son of a Syrian professor and an American language pathologist, he was adopted at birth by Paul and Clara Jobs. After dropping out of college he slept on friends' floors, lived off the five-cent tips he earned for returning used Coke bottles, and ate at the Hare Krishna temple. He joined the Homebrew Computer Club where he met Steve

© Getty Images

More than once Jobs had returned from a leave of absence to present new products and proposals.

Wozniak (the man with whom he'd go on to found Apple) and took a job at Atari. He spent the money he earned on a spiritual retreat to India, where he converted to Buddhism.

On returning to Atari he and Wozniak worked on the circuit board that would underpin the *Breakout* games machine, earning $100 for every chip they could eliminate from its circuitry. Woz, the electronics whizz, did the donkey work, stripping out 50 unnecessary components and earning the pair $5,000. Of this he received just $350, Jobs having assured him the pay-off had been just $700.

"I was hurt in later years when I heard that Steve was paid more than he'd told me, and I don't think that I hurt easily," Wozniak wrote. "But it was a long time ago and I prefer to get away from it."

> *"The original Macintosh launched with a $1 million commercial in a prime time Superbowl ad break"*

iWoz Atari

Remembering Jobs from that time, Wozniak describes a man who was well-liked by the Atari execs, and who split his time between its plant in Los Gatos and his friends' houses in Oregon.

Breakout shipped in May '76, one month after the two Steves had left Atari to found Apple, along with friend Ronald Wayne. The tech world's 'fifth Beatle', Wayne, now 77, designed Apple's first logo – Newton beneath an apple tree – and gave up his 10% share of Apple stock two weeks later, selling it back to Jobs for just $800. Today those shares are worth $36bn.

"I felt the enterprise would be successful but at the same time there could be bumps along the way and I just couldn't risk it," Wayne told *The Daily Telegraph* in 2005. "I was getting too old and those two were whirlwinds. It was like having a tiger by the tail and I couldn't keep up with these guys."

Apple hired a series of CEOs – first, in '78, Mike Scott of National Semiconductor, and later, in '83, John Sculley, whom Jobs famously poached from Pepsi by asking, "Do you want to sell sugar water for the rest of your life, or do you want to come with me and change the world?"

How prophetic those words became, as the Apple Macintosh shipped the following year and, in Apple's words, "reinvented the personal computer". The Macintosh was a revolution. Cheap when compared to its rivals, it nonetheless launched with a $1m commercial in a prime time Superbowl ad break. The Apple board, shocked at the price, not only of the slot but of its production (it was shot by Ridley Scott, with a cast of hundreds, at Pinewood Studios), tried – and failed – to have it pulled.

Jobs put up a passionate defence, and when the ad finally ran he was vindicated. A true mould-breaker, it's cited to this day, and in its time won awards and countless free replays, which more than recouped the up-front cost.

The battle over the ad was just one of several conflicts between Jobs and the board. The

»

ESSENTIAL STEVE

Keynote catchphrases

'One more thing...'

The traditional introduction to the last point of every keynote. First used to announce the company's return to profit, but since it has introduced the iPod shuffle, MacBook Air and iTunes Match. His September 2006 keynote included a second 'one more thing' in which, after announcing that movies were coming to the iTunes Store, he unveiled iTV, which by the following January had been renamed Apple TV.

'Boom!'

Blink and you'll miss it. Sometimes the Macs that Jobs uses in his keynote demos were just too fast, and he felt the need to point out what had just happened. 'Boom' was his shorthand for 'see that?'. Like the best magician, he was not one to repeat his tricks, so for those of us following along at home, it was a useful pointer that we should wind back the *QuickTime* stream and see what we missed.

'Pretty cool, huh?'

A master of understatement, Jobs frequently followed a radical innovation with a college-grade endorsement. 'Pretty cool' was used to describe everything from new *iMovie* filters to super-fast processors. We have to admit, we often found it hard to disagree.

'Insanely great!'

Originally used to describe the original Macintosh, this was a phrase that has passed into Apple folklore, becoming something of a Jobs-ism even if the man isn't generally heard saying it himself. He ought to, though. 'Insanely great' was applied to the iPod, iPhone, iPad, MacBook Air, iMac and OS X without anyone picking him up on it.

ADJECTIVES, ADJECTIVES, ADJECTIVES!

'Incredible', 'amazing', 'un-be-lie-vable'. Take your pick. Jobs loved his adjectives, as you'll see from this YouTube video (**http://bit.ly/fl4q5G**) which crams the whole of a keynote into less than two minutes. The rousing adjectives come so thick and fast that they're impossible to count.

>> TOP 5 / Steve-inspired, life-changing Apple products

hello
(again)
iMac

iMac

The computer that revived Apple's fortunes dumped the Mac's standard SCSI and parallel ports in favour of USB (still fairly niche back then), and did away with the floppy drive entirely. Out went beige, in came Bondi blue, and with it a new era of computing. The iMac did more than change Apple's fortunes; it kicked a complacent industry out of its slumber, encouraging innovation and the adoption of new, more exciting technologies for the consumer market. The current iMacs still remain true to its all-in-one roots.

iPod
Playlists
Browse
Extras
Settings
About

iPod

When Apple announced the first iPod, Jobs claimed that it would hold your 'entire' music library. Of course, that sounds hopelessly optimistic today, and even back then its 5GB drive could achieve that only if you ripped your music at what Jobs described as the 'very high quality rate' of 160Kbps. Today's iTunes downloads are all encoded at 256Kbps. Nonetheless, the iPod was a hit, although not right away. Launched in 2001, it took until 2005 for sales to exceed 20m units worldwide, helped in part by the iconic white earbuds.

iPhone

The iPhone wasn't the world's first iTunes-compatible mobile. Apple originally partnered with Motorola to produce the ROKR E1, a re-badged E398 launched in September 2005. In retrospect it's clear that Apple was trialling this as a means of selling phone-friendly tracks from the iTunes Store. Its 100-song limit stopped it competing with the iPod, but it was enough to confirm in the collective Apple mind the wisdom of producing its own handset. The revolutionary iPhone appeared two years later.

iPad

Speaking at *The Wall Street Journal*'s All Things Digital conference in 2003, Jobs revealed that Apple had "no plans to make a tablet. It turns out people want keyboards... We look at the tablet and we think it is going to fail." Indeed.

Skip ahead to 2010 and the web is awash with a new, more exciting quote from Jobs: "This will be the most important thing I've ever done." That was the Apple CEO discussing the iPad, shortly before its launch. Now in its second iteration, the iPad is the benchmark for tablets.

Macintosh

Jef Raskin, came up with the Macintosh while Jobs was working on the Lisa system. Raskin left after Jobs joined the Macintosh team in 1982 and, after a visit to Xerox PARC to view the copier giant's revolutionary graphical user interface, Jobs ordered that a similar look and feel be developed for the Mac's front end. Coupled with a new input device – the mouse – this was key to the Mac's success, helping the machine carve out a niche in the world of desktop publishing and design that it has yet to relinquish.

company was starting to fragment into rival Jobs and Sculley camps. Sculley, as CEO, took the only logical step. He relieved Jobs of his role as head of the Macintosh division. Jobs sold all but one of his Apple shares and founded NeXT, a high-end computer company with an eye for the aesthetic. The NeXTcube, on which Tim Berners-Lee developed the World Wide Web, had a case milled of magnesium, with built-in Ethernet and a revolutionary operating system called NeXTSTEP. Unix-based, it was set to become the basis for Mac OS X, but not before Jobs should be brought back to Apple.

The NeXTcube didn't sell well, and the company refocused its attention on software development, and in particular a programming environment known as OpenStep.

All roads lead to Jobs

Apple, meanwhile, had spent several years struggling to develop a next-generation operating system, and it saw NeXTSTEP and OpenStep as a way through the mire. It snapped up NeXT in December '96, paying $429m to investors, and signing over 1.5m Apple shares to Steve Jobs. The Mach kernel, BSD elements, Objecting-C underpinnings and Display PostScript of NeXTSTEP were all carried across into what would eventually become Mac OS X.

The stage was now set for the greatest comeback in history. Jobs was back in the fold, but Apple was battered and close to broken. Its product line-up had spiralled out of control, it had licenced its OS to third-parties who were using it to build cheap Mac clones that seriously dented its own hardware sales, and advanced side projects like the Newton MessagePad were distracting the company from where its attentions ought to have been focused.

> *"Jobs was back in the fold, but Apple was battered and close to broken. Its product line was out of control…"*

Jobs ousted CEO Gil Amelio, killed the MessagePad and tweaked the licencing terms so that no-one would want to build clones any more. Work started on Mac OS X while Jobs famously reduced the company's 15 product platforms "with about a zillion variations for each one" to a now famous two-by-two matrix.

"How are we going to explain this to others when we don't even know which products to recommend to our friends?" Jobs asked as he outlined his strategy for the company's rebirth. "If we have four great products, that's all we need… We can put the A Team on every one of them and if we only had four we could turn them all every nine months instead of every 18 months; and if we only had four we could be working in the next generation or two of each one as we're introducing the current generation."

His gutsy strategy more than paid off. First came the iMac, a computer so radical it shook the industry to its core. Rivals scrambled to swap their machines' boring beige boxes for translucent plastic. USB, pretty much the iMac's only external port, became an industry standard, and sales began to recover.

Next came AirPort, iTunes and the iPod. Developed in less than a year, and unveiled at an uncharacteristically low-key event, the iPod was set to become Jobs' finest hour. The chunky player was marketed with the somewhat unambitious slogan '1,000 songs in your pocket', and was the rock on which the company has built its current empire. From the iPod came the iPhone; and from there it moved on to the iPad, all the while developing a secondary operating system – iOS – with which it dominates tablet computing to an even greater degree than Microsoft does the desktop.

TIM COOK

SCOTT FORSTALL

PETER OPPENHEIMER

PHIL SCHILLER

THE APPLE LEADERSHIP
Anticlockwise from top-left: Tim Cook was Apple Chief Operating Officer, now he's Apple CEO; Peter Oppenheimer is Chief Financial Officer, the least visible of the executives; Phil Schiller is Senior Vice President for Worldwide Marketing; and finally, Scott Forstall is Senior Vice President of iOS software.

Tim Cook obviously has very large boots to fill. Jobs was famed for his micro-management of the empire, and for being more than its public face. He had a hand in every product it shipped, and a unique oversight of its strategy, path and ethos. So what can we expect from Tim Cook's leadership? And who exactly is the guy we're expecting to take Apple to the next level?

Life after Jobs

Tim Cook is actually the most logical of all the potential candidates for the CEO job.

As Apple Chief Operating Officer, he had been running the company since Jobs' leave began on 17 January – a role he also assumed through the CEO's previous medical absences. He arrived from Compaq in 1998, and set about shutting down Apple's factories, outsourcing production to third-parties and shortening the supply chain to reduce the need for warehouses. Having worked so closely with Jobs for 13 years, his understanding of the man will be better than any outsider. And with 12 years at IBM under his belt, he understands the world of tech beyond the Mac.

> *"Apple Chief Operating Officer Tim Cook is a safe pair of hands, and perhaps the best hope for Mac fans"*

Cook is a safe pair of hands, and perhaps the best hope for Mac fans. As head of the Macintosh division he has helped the company's computer line flourish when it could so easily have been distracted by the success of the iPod.

Cook may not have Jobs' eye for design, but there's no doubt that he shares Jobs' attitudes. When some new MacBooks were unveiled in October 2009, Cook listed several reasons for Apple's ever-growing Mac sales including better computers, better software, compatibility through Boot Camp and virtualisation: "when I look at this, frankly, it sends a shiver up my spine," he drawled, as an image of an iMac running Windows appeared behind him. Outside Apple, Cook is on the board of Nike, munches energy bars, is a huge fan of Lance Armstrong and spends most of his free time hiking, biking or in the gym. After a health scare in 1996 – he was incorrectly diagnosed with multiple sclerosis – he began competing in cycling events to raise money for MS. And apparently he gives away most of his money. He also funds a scholarship at Auburn University, where he did his engineering degree.

With Cook running the ship and Jonathan Ive taking care of design, Steve Jobs is leaving Apple in very capable hands. Cook has been running most of Apple for several years as Jobs' right-hand man, and we agree with Jobs: Apple's brightest years could well be ahead. ●

ESSENTIAL STEVE

From the mouth of Jobs

"Here's to the crazy ones. The rebels. The troublemakers. The ones who see things differently. While some may see them as the crazy ones, we see genius. Because the people who are crazy enough to think they can change the world, are the ones who do."

FROM APPLE'S THINK DIFFERENT ADVERTISING CAMPAIGN, 1997

"I'm as proud of what we don't do as I am of what we do."

Business Week, February 2006

"Almost everything – all external expectations, all pride, all fear of embarrassment or failure – these things just fall away in the face of death, leaving only what is truly important. Remembering that you are going to die is the best way I know to avoid the trap of thinking you have something to lose."

STANFORD COMMENCEMENT ADDRESS, 2005

'If I were running Apple, I would milk the Macintosh for all it's worth – and get busy on the next great thing. The PC wars are over. Done. Microsoft won a long time ago.'

FORTUNE, FEBRUARY 1996

"I feel like somebody just punched me in the stomach and knocked all my wind out. I'm only 30 years old and I want to have a chance to continue creating things. I know I've got at least one more great computer in me. And Apple is not going to give me a chance to do that."

PLAYBOY MAGAZINE, SEPTEMBER 1987

"The reports of my death are greatly exaggerated."

APPLE MUSIC EVENT, SEPTEMBER 2008

Q&A

>> MEET YOUR Q&A EXPERT

Whatever your Mac-related problem, from misbehaving MacBooks to withering wireless, Luis Villazon can help.

HINTS & TIPS ● TROUBLESHOOTING ● EXPERT ADVICE ● ESSENTIAL INFO

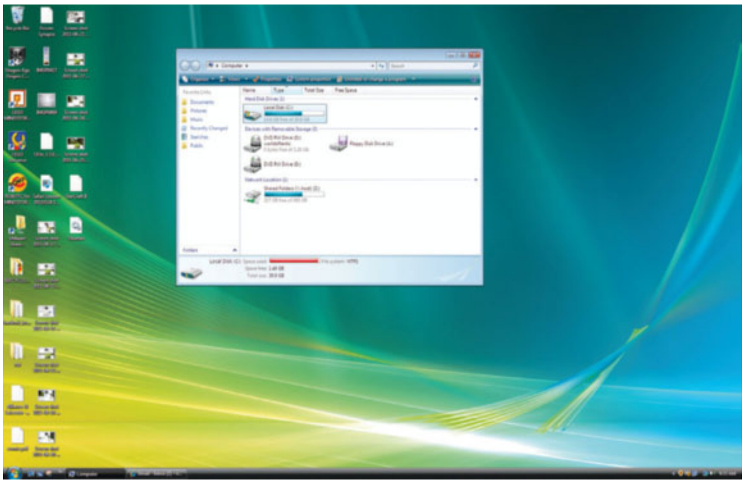
>> ASK LUIS A QUESTION

Got a problem with your Mac? Then why not send your queries to Luis at **macformat.helpline@futurenet.com** and see if he can help.

"App is causing a virtual standstill on my Mac…"

Q I'm running, or trying to run, *Parallels Desktop for Mac 5* on my Mac mini (2009, 2GB RAM) with Snow Leopard 10.6.7 and Windows XP set at 512MB. The trouble is that *Parallels'* prl_vm_app file chews up nearly 400MB of my remaining RAM, reducing my Mac's speed down to zero. It does this even when I pause the VM. *Parallels'* support is awful unless you're prepared to pay through the nose to get it, so I'm wondering what to do to get rid of this app or reduce its consumption of RAM.

Mike Wallbridge



Windows can be resource hungry enough. Emulating it through OS X can add more problems.

A If it were just a question of not enough RAM, it would be easy enough to add some more. Your mini has two RAM slots and each one can hold 2GB so you could double your available RAM with an investment of roughly £32 (www.crucial.com). That might be worth doing anyway, but I don't think it's going to have a dramatic effect on *Parallels*. Your Mac is grinding to a halt because the CPU load is jumping to 100%, not because it's running out of RAM. It's a nasty bug that has eluded the *Parallels* development team since around 2008, although there is a workaround that has been reported to work for some people.

Shut down the virtual machine and right-click vmname.pvm and select show contents. You'll find a config.pvs file inside the package that you can open in *TextEdit*. Change the Hardware/Chipset/Type value from '0' to '1' and save the file. Now restart the Windows virtual machine and cancel any 'new hardware detected' dialogs. Uninstall the *Parallels Tools* using Windows Control Panel and delete any files with names that begin 'prl' from C:\WINDOWS\system32\drivers. Then reinstall *Parallels Tools* again from the *Parallels* menu. The installation process might ask you for one of the Windows XP discs but you can point it at C:\WINDOWS\system32\drivers instead because the DLL files should all already be there.

And if all that doesn't help, maybe you should just revert to dual-booting with Boot Camp, until the *Parallels* team track down this bug.

"My shocking nano is making me nervous"

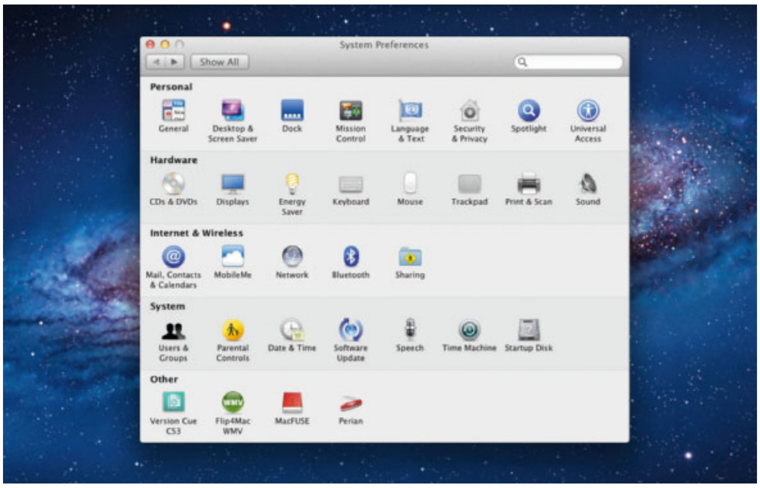
Q I recently had a worrying experience when my second-gen iPod nano wouldn't turn on. It first vibrated and then I thought I got a shock, so I quickly unplugged it. After that, it wouldn't turn on. What should I do?

Joshua Wood

A When you say you unplugged it, do you mean it was charging at the time? I have come across a few cases in the past where bad power cables in a PC have caused some voltage to leak across to the earth pin. The USB port is grounded to the computer chassis, which in turn is connected to the earth pin, so a live earth line will put a voltage across the metal case of anything plugged into the USB ports. Any voltage high enough to give you a shock will definitely be enough to fry the circuit board of your nano, so it is almost certainly dead. Check the power cable for the PC or Mac that your iPod was plugged into, and replace it if you have any doubts. You may be able to claim on your household insurance for the nano but generally the policy excess

If the metal parts of your iPod are live, check the earth connection on your charging cable.

iPod
Music
Photos
Extras
Settings
Shuffle Songs
MENU



The System Preferences pane in Lion is now your gateway to a world of customisation.

and the subsequent increase to your premiums make it more expensive than just buying a new one.

"What are these mysterious Mail attachments?"

Q I like to think of myself as a fairly proficient Mac user having had various models since 1997 (OS 7) but my latest one has me – and everyone else I've found with the same issue – stumped.

I use *Mail* as my email client and the other day I received an email with a 10MB video attachment. When it arrived in my inbox I saw from the message viewer window that there was indeed an attachment and the email size was 10MB. I opened the email however and there was no sign of the attachment – anywhere (email body or attachment/save list). After a bit of Googling I found a workaround by using File > Save Attachments. Sure enough the video file duly appeared on my desktop. This has now happened on two occasions recently and I'm not sure if there is a fix or whether I'm stuck with the workaround.

Trevor Phipps

A This is a very clearly demarcated set of symptoms; it feels like it ought to lead upwards to a single root cause but actually, it's like saying 'I have a fever and a rash'. It could be lots of things. Email was originally a text-only communication medium and over the years, various binary protocols have been layered on top to support rich formatting, attachments and so on. But these all ultimately boil down to blocks of 7-bit ASCII characters being sent between computers. The binary stuff is reconstructed at the other end when your email client parses the message headers and decides what is supposed to be there.

If an attachment doesn't appear in the viewer pane, even though the total message size makes it clear that it is there, this just means that *Mail* has misinterpreted the tags and instead of seeing the start of a new attachment, it has included a long string of garbage characters in the message body. Or sometimes the data gets added onto the end of an earlier attachment (which might then simply be ignored by the viewer program for that attachment).

So a variety of different bugs, both in the email client that composed the message and the email client that receives it, can cause attachments to seem missing. *Mail* has seen isolated examples of this since at least 2007 but it is always possible for some new combination of control codes inserted by some other email program to cause the problem to resurface.

One other possible workaround that might be preferable to you is to use *Terminal* to set defaults write com.apple.mail PreferPlainText -bool FALSE. Richly formatted messages are sent twice: once in plain text and once in HTML with all the formatting. Sometimes the attachment is only listed in the HTML section of the message and is missed if the email is displayed as plain text. This preference setting lets *Mail* show the HTML version when there is one.

»

Expand your gestures

Ian Osbourne

With OS X 10.7 Lion, gestures have become an even more integral part of Mac OS. No longer a mere convenience for notepad users, they're now so useful it's worth considering a Magic Trackpad for your desktop Mac, even if you currently use the gesture-capable but limited Magic Mouse.

Lion introduces a series of new gestures that make interacting with your Mac even easier. While browsing the web with *Safari*, you can tap or pinch to zoom, and navigate forwards and backwards through your browsing history with two-fingered horizontal swipes. Swiping left or right with three fingers takes you forwards and backwards through your *Dashboard*, desktops and full-screen apps, and if you want to add more desktops in Mission Control, just swipe upwards with three fingers. Some are available system-wide, but others only currently work with Apple's own applications. No doubt third-party developers will pick them up over time.

All these gestures and more can be configured using Lion's *System Preferences*, found under the Apple menu in the top-left corner of your desktop. But to get even more out of your MacBook trackpad, Magic Trackpad and especially your Magic Mouse, there are several third-party applications that enhance their capabilities. The most popular is *MagicPrefs* (**http://magicprefs.com**). This free app brings many trackpad gestures to the Magic Mouse, fixes its slow tracking speed and offers several new – and optional – multi-touch trackpad gestures.

> *"Swiping left or right with three fingers takes you through Dashboard, desktops and full-screen apps"*

For $6.99 (£3.64), *JiTouch2* (**www.jitouch.com**) is similar, and adds character gestures, where you activate a function by drawing a letter. For example, draw a 'B' to launch your default browser, an 'N' for a new document or window or 'S' to save. It might not suit everybody, but you can try it out before buying a licence. *MouseWizard* (**http://bit.ly/g5Mn96**) costs $5 (£3), and gives your Magic Mouse pinch, spread and tap-to-click trackpad gestures, as well as six extra buttons and special features such as covering the mouse to put your Mac to sleep.

Lion's native gesture support is now so strong you might find third-party enhancements completely superfluous, but as these apps are free or cheap, you've little to lose by giving them a go. ●

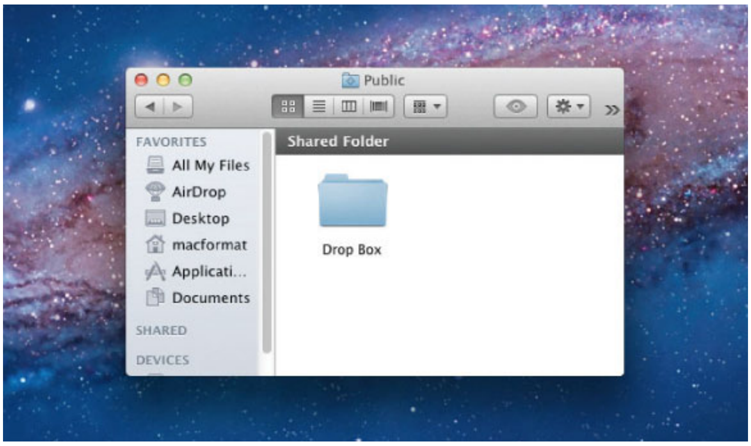
Ian has been annoying everybody with his new laser pen. The team have responded with one- and two-fingered gestures, currently not covered in the Magic Trackpad's instruction manual.

>> QUICK TIP

Select text in *Safari* and right-click to 'Search with Google'. If you don't want the results to replace your current page, hold down ⌘ as you click, and it will open in a new tab.

"Why has my desktop drawn a total blank?"

Q For the last couple of months, my desktop has gone AWOL. None of the icons appear, the right-click on the mouse doesn't bring up the menu, and the middle click won't bring up *Dashboard* (as programmed). If I try and send something to the desktop, it doesn't appear, although the file can be found via *Finder*. My wife's desktop is unaffected, so it must be something on my profile. I've tried to scan and fix disk permissions, I've uninstalled any new software that was there before the problem, and looked through *Time Machine* and matched it to when it was normal with no result. I have a 2008 iMac running the latest Snow Leopard.
Dominic Ross



The Public > Drop Box folder is used to transfer files between users on the same Mac.

No need to delete your user account if your desktop icons suddenly disappear - there is actually a much easier fix.

A In general, when you discover something weird that affects your user account, but not other accounts on the same machine, the quick fix is to create a new user account and drop all the document files from the old account into the Public > Drop Box folder of the new one. For the investment of an hour spent recreating your preferences and email account settings, you have a virtually guaranteed solution.

But this tactic is obviously only quicker when you don't have a more specific solution to hand, which in this case we do. The blank desktop is actually a hidden preference setting. Some third-party tweaking utilities such as *TinkerTool* (www.bresink.com) will give you a checkbox to let you enable this, but it reminds me of the Gary Larson cartoon of the young man in the airline seat, with his hands resting close to the switch labelled "wings stay on / wings fall off". This is probably why Apple keeps it hidden but even hidden preferences can occasionally get toggled on due to random gremlin activity.

To flip it back without downloading *TinkerTool*, open *Terminal* and enter the command defaults write com.apple.finder CreateDesktop -bool true, followed by killall Finder to force *Finder* to restart.

>> MACFIXIT TIPS / Shortcut your way out of trouble

Useful OS X keyboard shortcuts for troubleshooting

Getting used to various keyboard shortcuts and other shortcuts in OS X can greatly enhance your workflow efficiency. The basics of holding the ⌘ key followed by Q, W, S, or other letters to invoke common functions like quitting, closing windows, or saving, are well known, but OS X and various applications you use may have some unique shortcuts that can be exceptionally useful to some people. Memorising shortcuts can be a daunting task, but if you incorporate them over time into the way you use your Mac. Shortcuts are available for a number of different task types, so their usefulness will depend on what you are doing, and in troubleshooting the system there are a few that stand out as being exceptionally useful. Here are some shortcuts in OS X that may be useful when troubleshooting and managing the OS:

Managing Files

⌘+Z: undo

This is the universal 'Undo' option in OS X, and though it may seem odd to include as a special option here, it is perhaps one of the more useful commands when you are managing files on your disk. When trashing files, copying files, or moving them around on your disk, you may inadvertently place them in an unknown location. This can result in files suddenly disappearing or duplicates being created where you do not want them to be. An easy fix once these actions have been performed is to press ⌘+Z to undo the last action.

⌘+⌫: send to Trash

This shortcut is commonly used to move an item or a selection of items to the Trash in the *Finder*, but can be more specific than dragging a file there. When you highlight a file or selection of files with the mouse, you can be certain just those files are selected and then pressing ⌘+⌫ will move them to the Trash without the possibility of inadvertently dropping them on the desktop, placing them in the Dock, or dropping them on an application and thereby opening them. When you do this, the system should make a sound to let you know the files have been moved to the Trash.

MacFixIt
Troubleshooting Solutions for the Macintosh
Tips supplied by MacFixit.com

"How can I cure my very painful Bluetoothache?"

Q **Since the start of June my Bluetooth turned itself off on my 2009 Mac mini and won't turn back on! I have tried all the reset methods – power switch AND keyboard. I have also deleted com.apple.Bluetooth.plist and even tried to restore the plist from a backup from February just to be sure. I was going to try and use Apple Hardware Test but have misplaced the original OS disc for my mini, and I only have a Snow Leopard disc and its not on there as they are only supplied with a new machine. Other than doing a fresh install (which I don't really want to do), I'm stuck. *Parallels* can see all my Bluetooth devices in Windows 7 and Ubuntu and can connect to them! What's going on?**

Martin Burke

A Have you reset the PRAM yet? I wasn't completely clear if that's what you meant by 'power switch and keyboard'. Shut down your Mac then turn it back on with ⌘+⌥+P+R held down. You need to hold these four keys down at the same time before the grey screen appears, so it's best to have one hand already holding ⌘+⌥+R before you turn on, then you can use the other one to press P as soon as you hit the on button. Keep all four keys held down until the Mac reboots and you hear the startup chime for a second time – then let go.

There's no point running the hardware test, because you know Bluetooth works from Windows and Linux, so if resetting the PRAM doesn't fix it, you really will just have to reinstall OS X, like it or not.

MACFIXIT TIPS / More smart shortcuts

⇧+⌘+⌫: empty the Trash
Emptying the Trash is generally not a confusing task, but right-clicking the Trash or selecting the empty Trash options in the *Finder* menu may be a bit cumbersome at times. If you have any items there, you can tell the system to empty it by pressing ⇧+⌘+⌫. Doing this will bring up the warning asking if you would like to empty the Trash. But you can have the system immediately empty it without issuing this warning by pressing the ⌥ key as well, so ⇧+⌥+⌘+⌫ will toss the files without a notification.

Managing applications

⌥+⌘+esc: force-quit window
This shortcut will bring up the Force Quit window, similar to how you can bring up the *Task Manager* on Windows PCs by pressing ctrl+⌥+⌫.

⌥-⇧-⌘-esc: force-quit app
While the Force Quit window will work just fine to force-quit an application, in rare cases the window may not show up or you may just wish to quit the foremost application. To do this, press ⌥+⇧+⌘+esc and hold it for a few seconds, and the foremost application will be forced to shut down.

Managing the system

Apple used to have a power button on its keyboards that you could not only use to start up your Mac, but also use to quickly access sleep, shutdown, and restart functions on the system. This option is still available in OS X, but unless you have a notebook then the power button on your Mac may be a bit inconvenient to access. To overcome this, Apple has implemented some special keyboard shortcuts using the ⏏ key, to quickly access these system functions:

⌥+⌘+⏏: Sleep your Mac

ctrl+⌘+⏏: Restart computer

ctrl+⌥+⌘+⏏: Shut down

MacFixIt
Troubleshooting Solutions for the Macintosh
Tips supplied by MacFixit.com

"Is there a way to use my special sight software?"

Q **I have the eye condition wet macular degeneration and there is a program produced by Dolphin called *Guide*, which may well assist. However, Dolphin stated at a demo that Apple was not 'open source' and therefore this valuable aid to impaired eyesight could not operate on a Mac. I do know how to increase text size by using ctrl and the centre mouse button, but recently it failed to return to standard size text by reversing the direction of the centre button. I have now to press ⌘+⌥+- on the number pad. Is there a way to use the Dolphin software?**

Also, on a different note, can I change my email address from @googlemail.com to @gmail.com?

Edward Keen

A Windows isn't open source either, so that's a spurious reason for not producing a Mac version. A much more plausible reason is that virtually all of the features of Dolphin are already built-in to OS X. If you open the Universal Access pane of *System Preferences*, you'll see that you can enable VoiceOver to have your Mac speak aloud everything on the screen. VoiceOver also includes a simple way to move the cursor around the screen using the keyboard, so you can select menus and checkboxes without needing to line up a pointer.

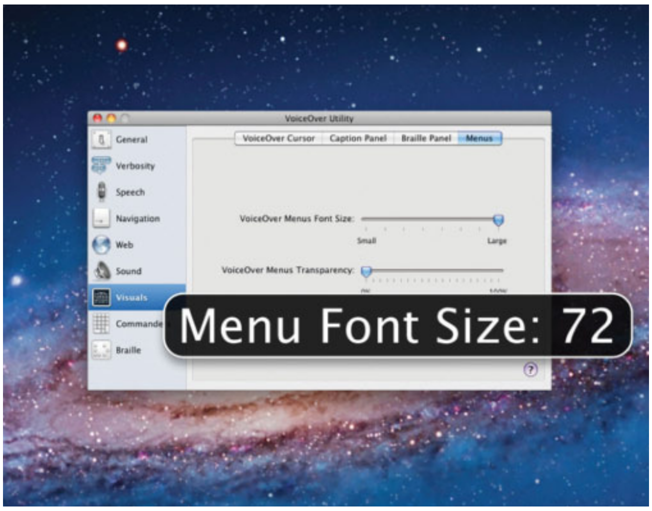
Screen zooming is included too. Click the Options button for the Zoom settings in *Universal Access* Preferences and check that Use scroll wheel with modifier keys to zoom is ticked. If you can zoom in but not out using the mouse scroll wheel, it might be that your mouse is faulty. *Dolphin Guide* is never going to work on the Mac and emulating Windows won't help because you need *Guide* to operate on-screen elements outside the Windows Virtual Machine, so it is worth persevering with the *Universal Access* settings.

As for your Gmail, all UK @googlemail.com addresses can switch to @gmail.com but you have to manually enable it. Go to the account settings page at mail.google.com and you will see a link to convert to @gmail.com.

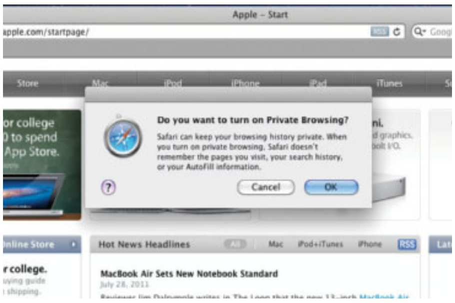
QUICK TIP

If your Canon, Epson or Lexmark printer drivers don't work properly in OS X, try the open source Gutenprint drivers from **http://gimp-print.sourceforge.net**.

OS X includes a huge range of settings for everyone from the partially sighted to those who are completely blind.

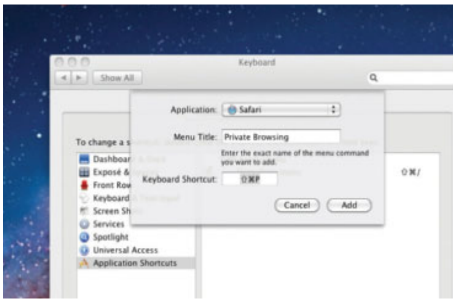


HOW TO / Get private browsing faster


Apple – Start
apple.com/startpage/
Store
Mac
iPod
iPhone
iPad
iTunes
Cancel
OK
Hot News Headlines
MacBook Air Sets New Notebook Standard
July 28, 2011

Do you want to turn on Private Browsing?

Safari can keep your browsing history private. When you turn on private browsing, Safari doesn't remember the pages you visit, your search history, or your AutoFill information.

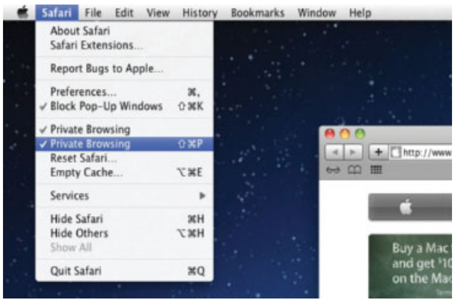

Keyboard
Show All
Dashboard
Exposé &
Front Row
Keyboard
Screen Sh
Services
Spotlight
Universal Access
Application Shortcuts
Cancel
Add

Application: Safari

Menu Title: Private Browsing

Enter the exact name of the menu command you want to add.

Keyboard Shortcut: ⇧⌘P


Safari
File
Edit
View
History
Bookmarks
Window
Help
About Safari
Safari Extensions...
Report Bugs to Apple...
Preferences... ⌘,
✓ Block Pop-Up Windows ⇧⌘K
✓ Private Browsing
✓ Private Browsing ⇧⌘P
Reset Safari...
Empty Cache... ⌥⌘E
Services
Hide Safari ⌘H
Hide Others ⌥⌘H
Show All
Quit Safari ⌘Q
Buy a Mac and get
on the Mac

01 Multiple clicks

Safari's **Private Browsing** feature let's you visit pages without remembering the address in your history or caching images. But if you use it a lot, it can be irritating to click Safari > Private Browsing… and then **OK** on the confirmation dialog.

02 Choose your keystroke

Open System Preferences > Keyboard and click the **Keyboard Shortcuts** tab. In the left-hand pane, select **Application Shortcuts** and click the **+** button. Chose *Safari* from the applications list and pick a keystroke combination for the shortcut.

03 Instant privacy

The exact menu text, which is what the dialog instructs you to enter, is 'Private Browsing…'. But if you use this, *Safari* will still pop up the confirmation dialog. To get round this, just enter 'Private Browsing', without the ellipsis ('…'). ●

QUICK TIP

⌥-click the volume control icon on the menu bar, to see a menu that lets you change the source for the sound input and output. This saves opening **Sound** preferences.

"How do I get subtitles where I need them?"

Q **I'm looking to make some space at home and thought of ripping my DVDs to MP4 and investing in an Apple TV. I've already got the software to rip my DVDs and software to convert the .TS file to MP4 – *Handbrake, Elgato Turbo.264HD* and *Toast Titanium*. However, there's a problem when it comes to subtitles.**

I know you can embed subtitles with other software, such as *Road Movie*, and that would be fine for the handful of foreign movies in my collection. But what about movies that are in English but have occasional need for subtitles? *Inglourious Basterds*, for example.

I don't need subtitles on screen for the whole movie, just now and then. I assume *iTunes* downloads of these movies work as the DVD does with subtitles – is there a way to do that at home?

Dan Hudson

A Back in the old days of VHS, subtitles were just part of the movie picture and couldn't be turned

MACFIXIT TIPS / Terminal troubleshooting

Beyond the aforementioned keyboard shortcuts, Apple has implemented some application services that may be useful in troubleshooting if you use the *Terminal*, or may be useful if you are a general *Terminal* user. Some of these may have keyboard shortcuts assigned to them by default, but if not, then you can always add shortcuts yourself using the **Keyboard** system preferences.

Man page in *Terminal*

The Terminal Man pages (⇧+⌘+M) are useful for looking up commands. While you can generally type "man COMMAND" or search for them on the internet, Apple has an option to look them up even quicker, by implementing a service to look up the man pages of a command that has been highlighted. Just right-click a command in any app, go to the **Services** menu, and select the **Open Man page in Terminal** option. If this is not available then you can enable it by checking it in the **Services** section of the **Keyboard** system preferences. In OS X Lion, Apple has the shortcut ⇧+⌘+M associated with this function, so you can always double-click a command to select it in an app (i.e. *Terminal* itself), and then press that shortcut to bring up the man page in the *Terminal*.

New *Terminal* at folder

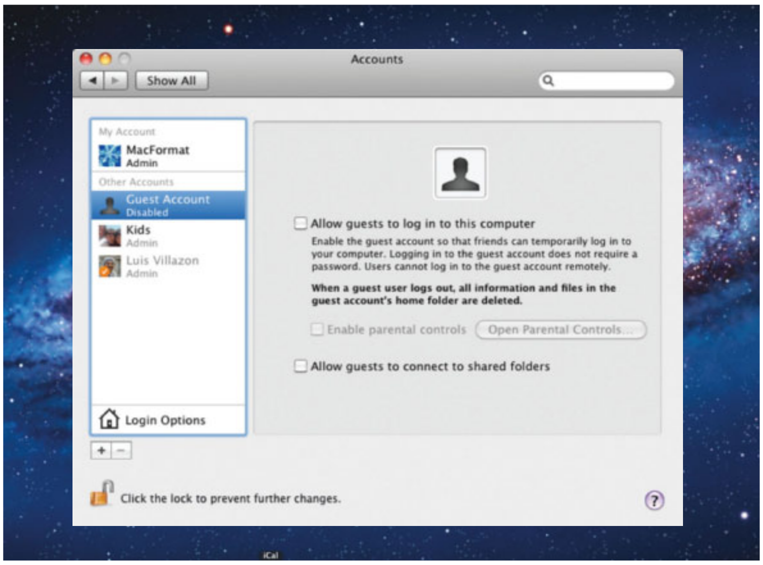
Another option that is brand new for Lion is that you now have the choice to open a new *Terminal* window at a specified folder in the *Finder*.

While there are some existing utilities that can help with this, having a built-in option in OS X is nice to have. As with opening the command Man pages, this option is available in the "services" contextual submenu, and should be available for any folder that is selected, including filesystem directories, application packages, and other package files such as libraries, extensions, and project files for some applications (e.g. *Pages, iMovie* and *GarageBand*). This by default does not have a keyboard shortcut associated with it, but you can assign one in the Keyboard system preferences. Do keep in mind that if you assign a keyboard shortcut, then in **Column** view the shortcut may not work unless the selected folder is a package file such as an application.

Tips supplied by MacFixit.com

MacFixIt, founded in 1996 by Ted Landau, has grown into the premiere destination for users seeking resolutions to bugs and conflicts. Visit **www.macfixit.com** for the latest Mac information.

MacFixIt
Troubleshooting Solutions for the Macintosh



☐ Allow guests to log in to this computer

Enable the guest account so that friends can temporarily log in to your computer. Logging in to the guest account does not require a password. Users cannot log in to the guest account remotely.

When a guest user logs out, all information and files in the guest account's home folder are deleted.

☐ Enable parental controls

☐ Allow guests to connect to shared folders

Click the lock to prevent further changes.

You can disable the Guest account, and even rename it. But you can't delete it altogether.

on or off. And one of the advances of DVD was to separate out different audio tracks and subtitle tracks, so you could select the combination you wanted at playback. Those subtitles that appear briefly when a German officer is speaking, are sometimes included as their own English subtitle track, with a separate much larger track with all the dialogue for the hard of hearing. However, more usually, the English subtitles are all on the same track but the portions where the characters are speaking German are flagged as 'forced'. This means that your DVD player will display them, even if you don't have subtitles turned on for the rest of the film.

When you rip your DVD with *Handbrake*, if you don't specifically tell it to include a subtitle track, these will simply be left out when the film is transcoded to MP4. Fortunately, however, *Handbrake* can search for any subtitles that are forced on, as well as any subtitle streams that are present for less than 10% of the movie. To do this, simply click the Subtitles tab and choose Track > Foreign Audio Search (Bitmap), then tick the Forced checkbox.

"How do I get Mr Thompson off my Mac?"

Q Over a year ago, my grandson made himself a guest on my Mac Pro by setting up a new user account under the pseudonym Thompson. However, I have since been unable to delete this impostor from my computer.

I have changed the Guest Account to Disconnected; Managed; and Login to Sharing, but whatever I do the '–' stays grey. Maybe my grandson (who I might add has a degree in computer science) is right when he claims that there is no way that I can kill off Mr Thompson.

Peter Sampson

A On a Mac there are only three user accounts that you can't delete: the one that you are currently logged in with, the root account and one called Guest. It sounds as if your sneaky grandson didn't actually create a new account at all, but instead renamed the guest account to 'Thompson'. Renamed or not, this is still the guest account and there is no way to delete it in OS X. What you can do, however, is rename it back to Guest and leave it disabled. To do this, all you have to do is open *Terminal* and type sudo dscl . create /users/Guest RealName "Guest Account" including the quotes.

This assumes that all he has done is change the long name of the account to 'Thompson', so the actual login name is still called 'Guest'. You can double-check this by enabling the account, logging in as 'Guest', and typing whoami in *Terminal*. This should return the short form of the account name.

Now go and put your pesky grandson on the naughty step. ●

On the forum

Help and advice from readers

Q Hello, I'm getting pretty fed up with *iTunes*. The latest upgrade, 10.4, does not work well at all. I just want to play top-quality MP4s on my hi-fi. *iTunes* does this very well, when it works. I don't need iPods, TV, video, ratings, the Store and so on. Can anyone suggest a simple MP4 player for an iMac that uses AIFF?

mcf_Art Robb Join date: Jun 2009 Location: Wiltshire Posts: 32

A Which OS are you using? On which Mac? You don't say what your problems are with i*Tunes 10.4*. I find it works great. I also don't need iPods, TV, video, ratings and the like, either, but it is possible to turn them off in the preferences.

If you have a *Time Machine* backup, you could always revert to *iTunes 10.3*, if that worked fine for you.

I just Googled *iTunes* alternatives and found this page: http://alternativeto.net/software/itunes/?platform=mac

mcf_ricede Join Date: Jun 2010 Posts: 11

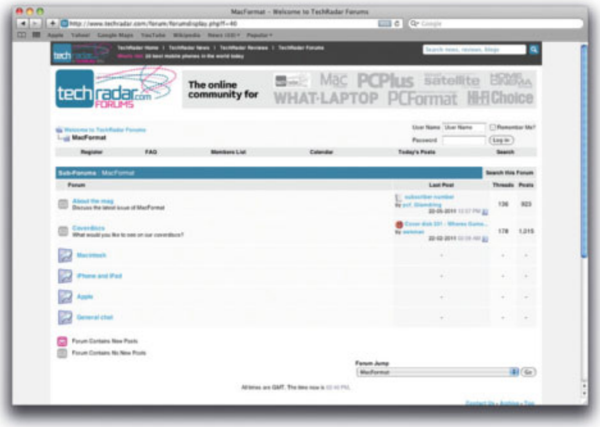
Q Sorry not to have been a bit more clear. It's a 2006 iMac with 10.6.8. I just moved the music library to an external hard drive as described at: **http://support.apple.com/kb/HT1449?viewlocale=en_US**.

I then upgraded to 10.4. All is working well but the delete button is now greyed out. I dragged some songs to the Trash but they still play! How am I to delete music now? Is this due to the move or 10.4? I backed up the *iTunes* music library, but not *iTunes 10.3*.

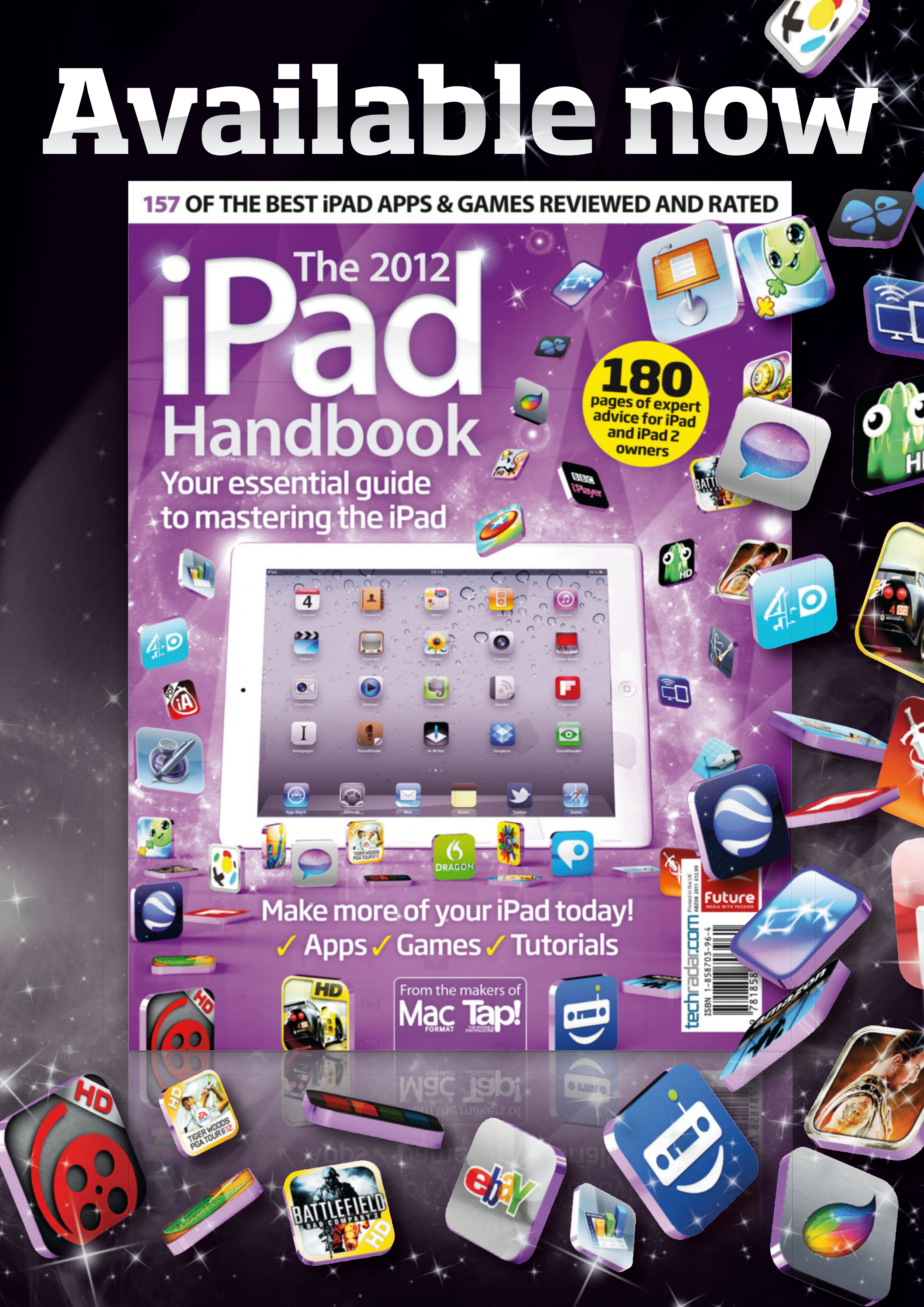
mcf_Art Robb Join Date: Jun 2009 Location: Wiltshire Posts: 32

A "All is working well but the delete button is now greyed out." Are you referring to the Delete in the Edit menu or the contextual menu Delete, when you right-click on an individual track, or group of tracks? In my copy of 10.4 the Delete button in the Edit menu is greyed out, but the Delete option in the contextual menu works fine.

mcf_ricede Join Date: Jun 2010 Posts: 11



Join our forum and join in the fun at **http://forum .macformat.co.uk**



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MEDIA STREAMERS GROUP TEST P110

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Reviews

● HARDWARE ● SOFTWARE ● iPHONE APPS ● SHAREWARE ● GAMES

Ian Osborne
Reviews Editor

Can a Mac ever be too powerful? The mid-2011 11-inch MacBook Air is without doubt an awesome machine, but can the heavily customised model sent to us by Apple justify the equally heavy asking price? Find out with our review on page 86.

There's more from Apple over on page 93. The server version of OS X 10.7 Lion is a bargain at £35, but how does it compare to the client version, and what advances does it make over Snow Leopard Server? Ian Betteridge finds it's mixed news.

Considering the potential of the Thunderbolt port, compatible peripherals have been slow off the ground. To date, only the Apple display revision and a handful of RAID drives are in the pipeline. The first Thunderbolt device to hit the stores is the Promise Pegasus RAID, a four- or six-bay RAID drive that's ideal for those who need fast, reliable storage, like database managers or video editors. Find out why on page 87.

In the software section, we also review new versions of *MacFamilyTree*, *Dragon Dictate*, *AccountEdge* and *Together*.

» OUR LOGOS

Mac FORMAT Choice ★★★★★ — A product that receives the MacFormat Choice award is the best in its class when reviewed.

Mac FORMAT Winner! — Used in our Group Tests, MacFormat Winner indicates the product that we feel stands out.

Mac FORMAT On the disc — This logo indicates there are either test versions or files associated with the review on the disc.

RATINGS EXPLAINED: ★★★★★ Excellent ★★★★☆ Very good ★★★☆☆ Good ★★☆☆☆ Adequate ★☆☆☆☆ Poor

>>NOTEBOOK MAC

11-inch MacBook Air 1.8GHz Intel Core i7, Mid-2011

£1,399 Could this enhanced notebook actually be too powerful for its intended niche?

CONTACTS

Developer: Apple, Inc
www.apple.com/uk

SPECIFICATIONS

Processor: 1.8GHz dual-core Intel Core i7 **RAM:** 4GB **Hard disk:** 256GB SSD **Ports:** 2xUSB 2.0, 1xThunderbolt **Optical drive:** None **Display:** 11.6-inch, 1366x768 pixel resolution **Graphics:** Intel HD Graphics 3000 **Dimensions:** 0.3-1.7x30x19.2cm **Weight:** 1.08kg

PROS & CONS

- ⊕ Excellent battery life
- ⊕ Incredibly portable
- ⊕ Powerful new processors
- ⊕ Backlit keyboard returns
- ⊕ Thunderbolt port
- ⊖ No SuperDrive

VERDICT

★★★★☆

"Incredible power and performance. The new 11-inch MacBook Air is an amazing engineering achievement."

The new 11-inch MacBook Air is brilliantly portable. Retaining the form factor and battery technology pioneered with the 2010 refresh, it again uses solid-state storage, saving both power and space. You can surf the web wirelessly for around five hours on a single charge. As is usual, closing the lid puts the machine in Sleep Mode. After an hour, it goes into the even more energy-efficient Standby Mode, a state that can last for up to 30 days before it drains the battery.

The MacBook Air's 11-inch impressive screen is surprisingly comfortable to use.

Improvements

The 2011 MacBook Air brings significant under-the-hood enhancements. The ageing Core 2 Duo processors are replaced with Sandy Bridge chips, Core i5s off the shelf and a Core i7 in the Online Store-enhanced model reviewed here. All support Hyper-Threading, where each of its two cores can run two threads, increasing performance when running apps designed to take advantage of multiple cores.

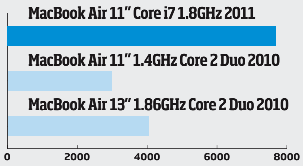
When the processor is operating at maximum capacity, Turbo Boost 2.0 increases the clock speed for short periods. The 1.8GHz Core i7 used here can reach speeds of up to 2.9GHz. The backlit keyboard makes a welcome return, having been dropped for the 2010 refresh. The Mini DisplayPort is replaced by the Thunderbolt port. Thunderbolt can be used as a video out port; you can plug in a Mini DisplayPort screen without using an adapter. It's up to 12 times faster than FireWire 800 and 20 times quicker than USB 2.0 for data transfer, and up to six compatible peripherals can be daisychained on a single port. With forthcoming adapters, you can also use your Thunderbolt port for FireWire 800 devices and gigabit Ethernet, both of which are new to the MacBook Air. The screen remains the same – a gorgeous 11.6-inch LED-backlit glossy widescreen display which, at 1366x768 pixels, is as high a resolution as you would expect from most 13-inch notebooks.

While we have no hesitation recommending the new Air, we wonder whether you need the custom options included in the model reviewed here. If you want a convenient supplementary Mac, the £849 entry-level MacBook Air might suffice. If you're looking to replace your main Mac, an iMac or MacBook Pro makes more sense. But if you want the best, and are prepared to pay for it, we can't fault its performance.

Ian Osborne

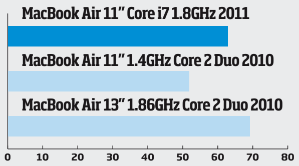
> *"The screen remains the same – a gorgeous 11.6-inch LED-backlit glossy widescreen display at 1366x768 pixels"*

>> BENCHMARKS / How does the latest MacBook Air stack up?



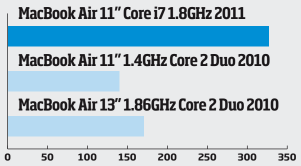
Cinebench (CBs)

Measuring CPU and GPU performance, Cinebench reports its results as a single figure. Multi-core performance quoted.



Doom 3 frame rates (FPS)

Tested using *Doom 3*'s 'timedemo 1' routine, set at 1,024x768 with settings at Ultra. Frames per second quoted. Higher is better.



Xbench

A test that benchmarks the CPU and hard drive performance using Xbench's CPU, Memory and Disk Tests. Higher is better.

Promise Pegasus RAID looks gorgeous, and is the perfect match for your Thunderbolt notebook or iMac.

Photography: Joby Sessions

» THUNDERBOLT RAID DRIVE

Promise Pegasus RAID R6 6TB

£1,269 Thunderbolt peripherals finally arrive, but does this immense RAID drive impress?

While the first Thunderbolt-equipped Macs appeared in February, dedicated peripherals have been a long time coming. Perhaps inevitably, the first to arrive are RAID drives. While the Thunderbolt port is capable of carrying data at up to 10Gbps in both directions, a single-drive external storage device is limited by its SATA connection, throttling speeds at 3Gbps, or 6Gbps if the less common SATA 3 is used. But a RAID drive set up in a striped rather than mirrored array can draw data from more than one hard disk at a time, greatly increasing its overall speed.

This particular RAID drive has six bays, each preloaded with a 1TB, 3Gbps, 7200rpm SATA hard drive. It's pre-configured in RAID 5, which gives a total of 5TB of storage, but if any of your six drives fail, you can replace it without losing data. When you first switch on it takes up to 10 hours to initialise itself, but unless you want to change the RAID setting you only need to do this once, and no user intervention is required. If you don't need quite so much storage, a four-bay unit is also available.

Both models are clearly built with the Mac user in mind; with their brushed aluminium finish and black trim, they're a perfect complement to the Thunderbolt-equipped computers in Apple's notebook and desktop range (the current release of any Mac except the Mac Pro). We tested the Pegasus using QuickBench, which measures transfer speeds in megabytes per second. Taking an average of five tests, it achieved a random read rating of 240.745 MB/sec, and a random write speed of 229.124 MB/sec. As it's Thunderbolt-only we can't make direct comparisons with other connectivity methods. But to give you an idea of just how fast it is, we also measured a perfectly capable FireWire 800 drive. Again averaging five tests, it achieved random read speeds of 15.505 MB/sec and random write speeds of 18.366 MB/sec.

> *"Both are built with the Mac user in mind; with their brushed aluminium finish and black trim…"*

At over £1,200 for a fully laden six-drive device, the Promise Pegasus RAID isn't a casual investment. But if you need fast transfer speeds, it doesn't disappoint.

Ian Osborne

CONTACTS

Manufacturer: PROMISE Technology, Inc

URL: www.promise.com

SPECIFICATIONS

Capacity: 6TB **RAID support:** 0, 1, 10, 5, 50, and 6 **Connectivity:** 2xThunderbolt ports, 1xUPS port **Supports** Time Machine

PROS & CONS

- + Blisteringly fast
- + Looks great next to a Mac
- + First Thunderbolt peripheral
- − Expensive

VERDICT

★★★★☆

"The first Thunderbolt peripheral offers amazing transfer speeds. This is definitely a tool for the professionals."

>> COMPACT SYSTEM CAMERA

Samsung NX100

£249 Samsung found room for everything except a high price

CONTACTS

Manufacturer: Samsung
www.samsung.com/uk

SPECIFICATIONS

Resolution: 14.6mp **Lens:** 20-50mm, f/3.5-5.6 **Electronic viewfinder:** No **File formats:** Raw, JPEG, H.264 MP4 **Dimensions:** 120.5x71x34.5mm **Weight:** 340g

PROS & CONS

+ Powerful, flexible camera system
+ Generally very good photos
− No in-camera image stabilisation
− Some compromises will irk pros

VERDICT

★★★★☆

"A competent, compact alternative to baby SLRs, and excellent value."

This may look like an unexceptional semi-pro compact camera, but it's actually not that compact; it has ambitions to be a big camera too.

Many of its features suggest this ambition might not be misplaced. You can swap the lens. Because only Samsung makes lenses to fit this NX mount (though K mount lenses can be added with an adapter) you don't have the same choice of lenses as with full SLRs. But we've tried a few of the Samsung lenses, and all are at least very good.

Additionally, there's a big sensor in the body. It's the same size as in lower-end Canon and Nikon SLRs. Large sensors, as a rule, mean less noise, and certainly, the NX100's images are clean at anything taken under 1000 ISO.

Do not attempt to slip this camera into your trouser pocket unless you are a clown in full costume.

Elsewhere, there's plenty of customisation. Shoot in full auto mode, or switch to program auto, aperture, shutter or manual mode.

Finally, there's a decent bundle of accessories. We tried a flash and lenses, but you can also add a GPS module for geotagging, or an electronic viewfinder (EVF). The latter would be a good addition to pair with the clever i-Function button on the bundled 20-55mm lens. Press it to cycle between ISO, aperture and so on, then use the ring on the front of the lens to change the value. It's awkward when holding the camera at arms' length, viewing the changes on the 3-inch AMOLED screen, but would be great through an EVF.

Pictures are superb. Although there's no image stabilisation in the camera itself, its decent noise levels mean it can capture good shots in sub-optimal lighting conditions. The bundled lens is sharp. Video is acceptable, though there's some background hum in the audio, and if you want to change focus in the middle of a shot, you have to be switched to manual focus mode.

Christopher Phin

>> LCD MONITOR

iiyama ProLite X2472HD

£199 VA monitor is a first for iiyama – and it shows

CONTACTS

Manufacturer: iiyama
www.iiyama.com/gb_en

SPECIFICATIONS

Display: 61cm LED-backlit VA LCD monitor **Resolution:** 1920x1080 **Contrast ratio:** 3,000:1 **Colours:** 16.7 million (24-bit) **Dimensions:** 520x420x179mm **Weight** 3.6kg

PROS & CONS

+ Excellent contrast and colour
+ Sensible pricing, cheap to run
− Noticeable blurring and ghosting
− Not great for gaming or movies

VERDICT

★★★☆☆

"Great value monitor with a fatal flaw: it's not great with movies or games."

Business-like monitors are iiyama's stock in trade, but the company's a bit of a laggard when it comes to introducing new tech. It finally introduced its first LED-panel last year with the E2472HD and is only now switching from TN (twisted nematic) to VA (vertical alignment) panels with this, the ProLite X2472HD. There's nothing fashionable about its lateness here.

That aside, VA panel technology has some very clear benefits, including improved black levels, better contrast and greater colour accuracy, The downside is relatively high response times – the X2472HD is pegged at 8 milliseconds – making them less suited to films and games.

The iiyama ProLite X2472HD's looks won't make it stand out from the crowd. Its clad in gloss black plastic.

Anyone familiar with budget monitors will instantly recognise the X2472HD's glossy black plastic looks. Features are limited to touch-sensitive controls and restricted tilt adjustment. Connectivity options include single VGA, DVI and HDMI ports, plus a 3.5mm headphone jack. There are no built-in speakers.

In use, the X2472HD does a fairly good job for the money. It whistled through most of our monitor tests with considerable aplomb and performs very well when it comes to rendering your documents and photos. The only hiccups you'll really notice are a tendency to blur text at very low point sizes and some slight dark spots in corners. Viewing angles are very wide (178-degree, horizontal/vertical) with virtually no colour shifts. Sadly the X2472HD's performance is less stellar when it comes to movies and games, with noticeable blurring and ghosting – and that's enough to restrict its appeal for everyday Mac use.

Rob Mead-Green

You can adjust the volume with the lit touch panel - though the jumps are too big.

>> REVIEWS DESCRIPTION

Creative ZiiSound D5x & DSx

£280 (D5x) **£140** (DSx) **£700** (above) A wireless speaker system in the true sense of the term

We're not going to tell you that this speaker dock system is cheap, but we will tell you that you're probably going to want it badly.

Let's explain the different bits of hardware above first. There are two ZiiSound D5x speaker docks and one ZiiSound DSx subwoofer. The D5x is an updated version of the D5. Creative tells us the sound is better in the D5x than the D5, but even putting them side-by-side, we're hard-pushed to tell the difference. Happily, though, even the D5 sounded awesome, so you should be more than satisfied.

The bigger news with the D5x, and the reason there are two above, is that you can link them together wirelessly, and even add the D5x subwoofer - again wirelessly. You could link two speaker docks wirelessly in two different rooms to stream to both at once. Or you could have one and link a subwoofer, tucked in a corner somewhere.

Or you could, as we've done, link two D5xs and a DSx as a 2.1 system, telling one D5x to be the left channel and one to be the right channel (rather than a left-and-right plus a left-and-right).

As with a normal speaker dock, you can just set your iPhone or iPod touch down onto the dock connector at the middle back of each D5x; it plays and charges your device simultaneously. Lift your device off, though, and a little dongle comes with it that connects your device over Bluetooth to the D5x. So, you're now streaming music wirelessly to a set of speakers that are themselves connected wirelessly. We're in the future now. (Actually, there are even more configuration options!)

> *"Link speaker docks together wirelessly in two different rooms and you can stream to both at once"*

There are caveats. It's expensive (though you could start small and grow) and a pain to set up. What's more, there are sometimes horrid jitters when you switch tracks, and if you're not used to so much bass, you might feel overwhelmed - there is at least an adjustment dial on the DSx. Without the DSx, one or more D5xs still sounds good; the sub just adds real punch to the low end. It's also a shame that it doesn't use Apple's AirPlay, because that way you wouldn't need the dongle, and it would add flexibility.

Christopher Phin

CONTACTS

Manufacturer: Creative
http://uk.creative.com

SPECIFICATIONS

Wireless speaker link range: Up to 30m
Bluetooth range: Up to 10m
Codecs supported: A2DP, AVRCP
Dimensions: 10.3x42.5x10cm
Weight: 2.38kg

PROS & CONS

- + Wireless everything
- + Fantastic sound
- − A pain to set up
- − Expensive

VERDICT

★★★★☆

"Not cheap, even just for one D5x, but it does sound wonderful. And its tech is smart, too."

Words: **Ian Osborne**

01

03

04

02

» USB/FW HUB

Moshi iLynx 800

£65 www.moshimonde.com

01 Reaching around the back of your iMac to connect USB and FireWire peripherals can be irritating, especially if you regularly plug in external devices. Moshi's solution is the iLynx 800, a peripheral hub with four USB 2.0 and two FireWire 800 ports. Dynamic Power Sharing technology means you can plug in portable drives without adding a power supply. iLynx 800 is clearly designed to look good sat on an iMac's foot. Its plastic body is a fair match for the brushed aluminium finish, and its six side-mounted expansion ports are easier to reach than your iMac's.

VERDICT

★★★½☆

"Yes, it is reasonably useful and looks great, but it is a bit of an extravagance."

» CHARGING PLUG

MushRoom Green ZERO

£18 www.osungoods.com

02 Most chargers continue to draw electricity after your device is fully charged. This so-called 'vampire draw' wastes money and energy, and shortens battery life. OSUN's MushRoom Green ZERO automatically switches itself off when your USB-charged battery is full, though it continues to supply power if you're running an always-on app such as a clock or photo frame. Press the green 'mushroom' button to begin charging. For travellers, the mushroom also acts as a useful cable tidy; its 5V, 1000mA output is good for charging an iPad too.

VERDICT

★★★★½

"A handy USB plug, especially for travellers, that will save you money over time."

» DISPLAY TOOL

ColorMunki Display

£130 http://bit.ly/ore074

03 Out of the box, your monitor might not display colours with any precision, and it certainly won't be set up with local lighting conditions in mind. For general, day-to-day use this is unlikely to matter, but for professional designers and photographers, it's essential the screen is correctly calibrated. That's where the X-Rite's ColorMunki DISPLAY comes in. It guides you through the calibration process using a software wizard. It only takes 10 minutes, and when you're finished, you can save your new calibration settings as a profile.

VERDICT

★★★★☆

"A useful tool for those who need their monitor accurately calibrated from the off."

» CREATIVE BUDS

Aurvana In-Ear3

£130 www.creative.com/uk

04 The Aurvana In-Ear3's main selling point is its sound isolation. Creative claims up to 98% of external noise is suppressed, a figure we won't dispute. With the cables looped over the ear and three sizes of rubber tips and two foam sets to choose from, they really do leave you alone with your music. They have an impressive sound too, with crystal-clear mid-tones and lively bass. It's well rounded, with nothing missing and everything nicely balanced. A cleaning tool, carry case and aircraft adapter are supplied, though the cable lacks an anti-tangle coating.

VERDICT

★★★★☆

"Buds that offer comfortable, excellent noise isolation and a great all-round sound."

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Slim down your Mac
TOP 10 WAYS TO FREE UP SPACE ON YOUR MAC TODAY!
GROUP TEST
Media streamers
Which one is top of the pile?
MacBook Air
The 11-inch Air reviewed
INVESTIGATED
Life after Steve
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>>ORGANISER APPLICATION

Reinvented Software Together 2.5

$40 (£25) Find and file your data files

KEY INFO

Developer: Reinvented Software
www.reinventedsoftware.com

REQUIREMENTS

OS: OS X 10.6 Snow Leopard or later
Other: Internet connection to register, syncing requires MobileMe

PROS & CONS

- ➕ Extremely feature-rich
- ➕ Easy-to-reach shelf
- ➕ Sync with MobileMe
- ➖ Shelf lacks library window access

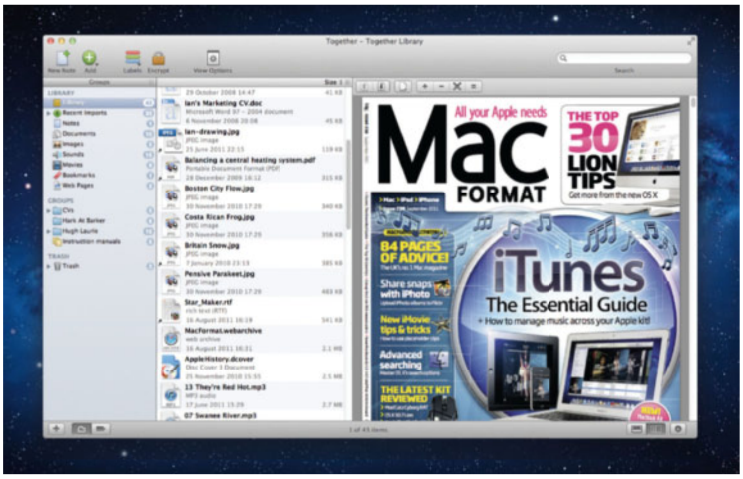
VERDICT

★★★★½

"A well-organised and convenient way of organising digital data."

Together can be used to store just about anything, including documents, sound files, videos, images, notes and web pages. Material in your *Together* library can be tagged for easy searching, or colour coded with *Finder*-style labels. Groups, smart groups and folders collate specific projects, and sensitive files can be password-encrypted. Best of all, you can get at your content through the application's 'shelf', a side bar accessed through an optional tab at the edge of the screen. This way, your data's always at your fingertips.

When adding a file to the library, you can make a duplicate of the original file, move it out of its original location or open it from the library through an alias, a laudably flexible approach. Web pages can be bookmarked, and even converted into a web PDF to view within the app; just the thing for offline reading. You can synchronise your content through MobileMe too, but although the app supports multiple libraries, only one can be synced at a time.



You can store pretty much any type of file in a Together library. Even MacFormat issues!

Together 2.5 is an excellent example of just how good a well-designed user interface can be. Despite being packed with features, you can navigate the app with ease; the shelf is a brilliant feature that gives easy access to anything stored in your *Together* library, though we wish it had a button to open the library window itself. But this is the only omission in an incredibly feature-packed and easy-to-use application.

Ian Osborne

>>SPEECH-RECOGNITION UTILITY

Nuance Dragon Dictate 2.5

£180 A suite that's learned a few new tricks

KEY INFO

Developer: Nuance Communications
www.nuance.co.uk

REQUIREMENTS

OS: OS X 10.6 or later
RAM: 2GB **Disk space:** 3GB
Other: iOS 4.2 or above for iOS app

PROS & CONS

- ➕ Wealth of new features
- ➕ Even more accurate
- ➕ Update free for current users
- ➖ Takes time to train

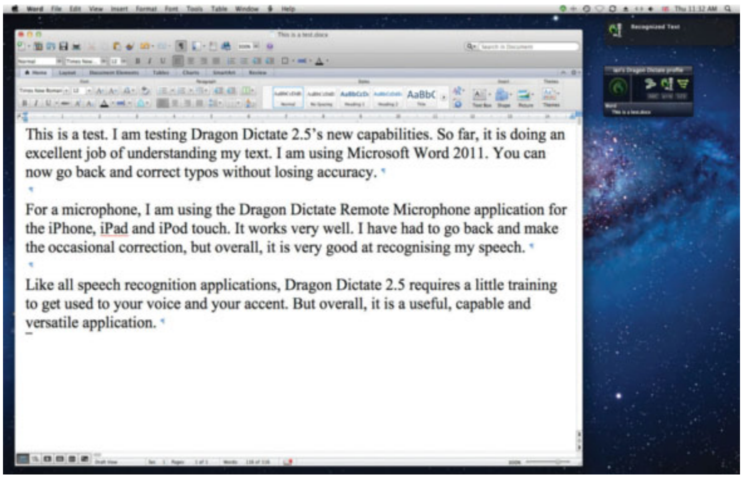
VERDICT

★★★★☆

"A versatile and feature-rich app that takes a while to reach its true potential."

Dragon Dictate has gained a wealth of new features since we covered Version 2.0 back in *MF229*. You can now use an iOS device as a microphone instead of the bundled USB headset. The new release accepts multiple audio input sources, so adding your iPhone, iPad or iPod touch won't delete the headset's data settings.

Support for *Microsoft Word 2011* has been improved, with voice commands for formatting text, adding graphics and inserting tables, and switching between the mic and keyboard is more fluid. You can stop talking, correct a typo using the keyboard and then return to speech dictation without losing accuracy. Individual preferences set how dates and times are recorded, and the new Numbers Mode lets *Dragon Dictate* interpret everything you say as a numeral or a command. Just the thing if you dictate a lot of figures. New social networking features let you post to Facebook and Twitter. The iOS app is especially useful for this; you can tweet or update your status through *Dragon Dictate* without connecting the headset.



Word File Edit View Insert Format Font Tools Table Window Help
This is a test.docx
Recognized Text

This is a test. I am testing Dragon Dictate 2.5's new capabilities. So far, it is doing an excellent job of understanding my text. I am using Microsoft Word 2011. You can now go back and correct typos without losing accuracy.

For a microphone, I am using the Dragon Dictate Remote Microphone application for the iPhone, iPad and iPod touch. It works very well. I have had to go back and make the occasional correction, but overall, it is very good at recognising my speech.

Like all speech recognition applications, Dragon Dictate 2.5 requires a little training to get used to your voice and your accent. But overall, it is a useful, capable and versatile application.

Dragon Dictate 2.5 offers improved support for Microsoft Word 2011 and iOS compatibility.

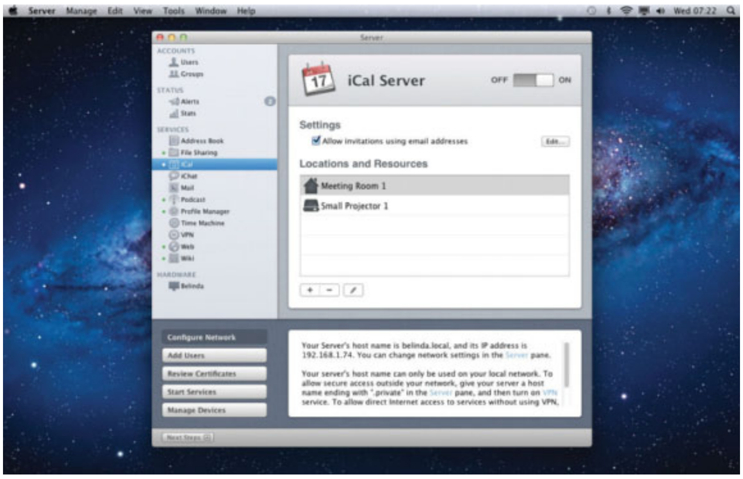
The quality of its speech-to-text engine is very good, and improves over time as you configure it to your needs. It's easier to add non-standard terms to the dictionary. You can now delete words too. *Dragon Dictate 2.5* is a significant upgrade, especially considering it's free if you already have v2.0. It isn't for the casual user, but the rewards are there.

Ian Osborne

>> APPLE OPERATING SYSTEM

OS X Lion Server

£35 The lowest-priced OS X Server yet. But is it better than the last version?


Server
Manage
Edit
View
Tools
Window
Help
Wed 07:22
Server
ACCOUNTS
Users
Groups
STATUS
Alerts
Stats
SERVICES
Address Book
File Sharing
iCal
iChat
Mail
Podcast
Profile Manager
Time Machine
VPN
Web
Wiki
HARDWARE
Belinda
17
iCal Server
OFF
ON
Edit...
+
−
Configure Network
Add Users
Review Certificates
Start Services
Manage Devices
Next Steps

Settings

☑ Allow invitations using email addresses

Locations and Resources

Meeting Room 1

Small Projector 1

Your Server's host name is belinda.local, and its IP address is 192.168.1.74. You can change network settings in the Server pane.

Your server's host name can only be used on your local network. To allow secure access outside your network, give your server a host name ending with ".private" in the Server pane, and then turn on VPN service. To allow direct Internet access to services without using VPN.

The iCal server lets you share calendars as well as create shared resources like projectors.

Since its launch in 1999, Mac OS X Server has generally been aimed at system administrators looking after hundreds (and sometimes thousands) of clients. This was reflected by the hardware Apple shipped that was dedicated to servers, such as the expensive rack-mounted Xserve.

The latest version of OS X Server, based on Lion, is different. Now marketed as "the server for everyone", Lion Server has seen its price radically reduced, down to £34.99, and like its client sibling, there's no install disk. Instead, it's installed through the Mac App Store, with no disk burning required.

How does Lion Server differ from the regular version? At its heart, it's the same operating system with all the same features, capable of running all the same applications. However, Lion Server adds a bunch of workgroup management and server administration tools, as well as some key server applications for running email servers, wikis, shared calendars and contacts, and instant messaging. New in this version is the ability to create and distribute system profiles to both Macs and iOS devices, enabling you to effectively remotely configure these machines.

> *"How does Lion Server differ from the regular version? It's the same OS at heart, but it adds workgroup management and admin tools"*

You need to be running the 10.6.6 version of Snow Leopard or later, and like the client it's not only Intel-only, but requires a 64-bit Intel processor, so Macs based on the Intel Core Duo (rather than Core 2 Duo) won't run it. However, if your machine is supported – and Lion even supports notebooks – then the install process is pretty simple.

Once installed, the immediate difference you'll notice is the addition of an unfamiliar application in your Dock: Server (which we're going to call Server.app, for clarity's sake). This is where almost everything in Lion Server is configured, letting you add users and create groups, and administer most of the services that are available.

Opening Server.app is the point at which new users will breathe a sigh of relief, while experienced OS X Server admins will utter a scream of horror. The application makes administering just about everything extremely simple, but at the price of removing many of the features that server admins will have got used to. For example, the ability to administer FTP is completely gone from the server interface: FTP is still there, but you're going to have to use the command line to configure it.

You can restore most of the missing functionality by downloading the Server Admin Tools from Apple's website, but not all of it. Both QuickTime Streaming Server and the old (and powerful) Print Server are gone completely.

However, that's unlikely to matter much to the people Apple is trying to appeal to: small businesses who want a 'set up and go' server capable of handling files, calendars, shared address books, *Time Machine* backups and more; and home users, looking for a simple and powerful system for sharing files amongst a family.

And it's in these roles that Lion Server really shines. If you're not a professional system administrator, you will be able to get everything your small business needs up and running within an hour or so of installing it. If you fit into this category, Lion Server is highly recommended. If, though, you're a professional system administrator reliant on QuickTime Streaming Server or Print Server, you may want to stick with Snow Leopard for now.

Ian Betteridge

KEY INFO

Developer: Apple

www.apple.com

REQUIREMENTS

OS: OS X 10.6.6. or later

Processor: Intel Core 2 Duo, Core i3/i5/i7 or Xeon

RAM: 2GB

Hard disk space: 7GB

PROS & CONS

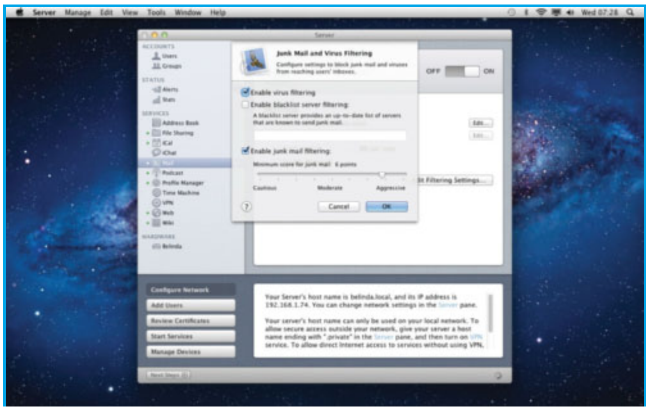
- ⊕ Simplified installation
- ⊕ Support for Macs/iOS devices
- ⊕ Extremely low cost
- ⊕ Easy for non-admins
- ⊖ Some features set outside GUI
- ⊖ Some features missing entirely

VERDICT

★★★★☆

"For small businesses this is an excellent buy. But Enterprise admins may want to wait for now."

Lion Server's email server can filter out spam and malware-infested emails before they hit your users' inboxes.


Server
Manage
Edit
View
Tools
Window
Help
Wed 07:28
Server
ACCOUNTS
Users
Groups
STATUS
Alerts
Stats
SERVICES
Address Book
File Sharing
iCal
iChat
Mail
Podcast
Profile Manager
Time Machine
VPN
Web
Wiki
HARDWARE
Belinda
OFF
ON
Edit...
Edit...
Filtering Settings...
Cautious
Moderate
Aggressive
?
Cancel
OK
Configure Network
Add Users
Review Certificates
Start Services
Manage Devices
Next Steps

Junk Mail and Virus Filtering

Configure settings to block junk mail and viruses from reaching users' inboxes.

☑ Enable virus filtering

☐ Enable blacklist server filtering:

A blacklist server provides an up-to-date list of servers that are known to send junk mail.

☑ Enable junk mail filtering:

Minimum score for junk mail: 6 points

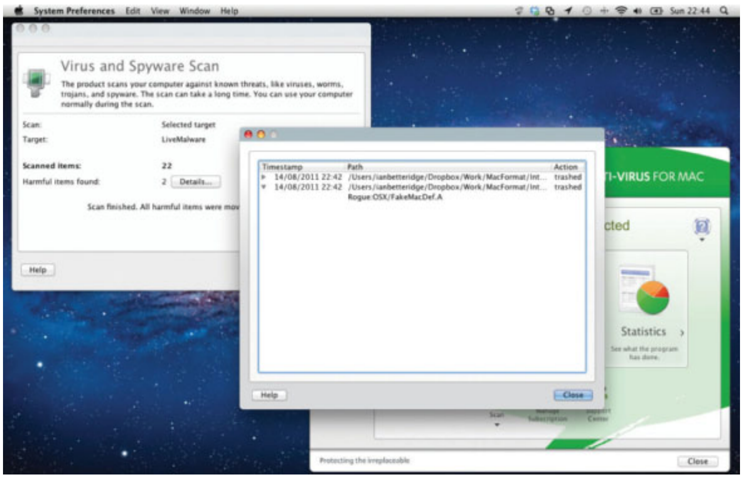
Your Server's host name is belinda.local, and its IP address is 192.168.1.74. You can change network settings in the Server pane.

Your server's host name can only be used on your local network. To allow secure access outside your network, give your server a host name ending with ".private" in the Server pane, and then turn on VPN service. To allow direct Internet access to services without using VPN,

>> MALWARE PROTECTION

F-Secure Anti-Virus for Mac

£20 per year For protection from Mac malware?


Virus and Spyware Scan

The product scans your computer against known threats, like viruses, worms, trojans, and spyware. The scan can take a long time. You can use your computer normally during the scan.

Scan: Selected target
Target: LiveMalware
Scanned items: 22
Harmful items found: 2

Scan finished. All harmful items were mov

Timestamp	Path	Action
14/08/2011 22:42	/Users/ianbetteridge/Dropbox/Work/MacFormat/Int...	trashed
14/08/2011 22:42	/Users/ianbetteridge/Dropbox/Work/MacFormat/Int... Rogue:OSX/FakeMacDef.A	trashed

System Preferences
Edit
View
Window
Help
Sun 22:44
Details...
Help
Close
TI-VIRUS FOR MAC
cted
Statistics
See what the program has done.
Scan
Manage Subscription
Support Center
Protecting the irreplaceable
Close

F-Secure malware scans can be done on your whole drive or any individual folder or file.

KEY INFO

Developer: F-Secure
www.f-secure.com/en/web/home_global/protection/anti-virus-for-mac

SPECIFICATIONS

OS: OS X 10.5 or later **Processor:** Intel **Disk space:** 100MB

PROS & CONS

- ⊕ Real-time protection
- ⊕ Easy to use
- ⊕ Reasonable price
- ⊖ Scanning can be slow

VERDICT

★★★★☆

"F-Secure offers a good, reliable service at a decent price – if you really need it."

With the recent spate of Mac malware, it's no surprise that virtually all of the big security companies have brought out Mac products. F-Secure has joined the fray, with its *Anti-Virus for Mac* (which doesn't just deal with viruses: it protects you from malware too).

But do you need anti-malware software, now that OS X includes its 'File Quarantine' feature to spot downloaded malware? It isn't perfect: it's not always updated as quickly as commercial software, and doesn't allow you to run manual scans of all the files on your computer. Instead, it only checks downloaded files.

Download *F-Secure's* installer, run it, buy a subscription and that's it – you're protected. Once installed, it's completely maintenance free, downloading updates to its virus definition files in the background.

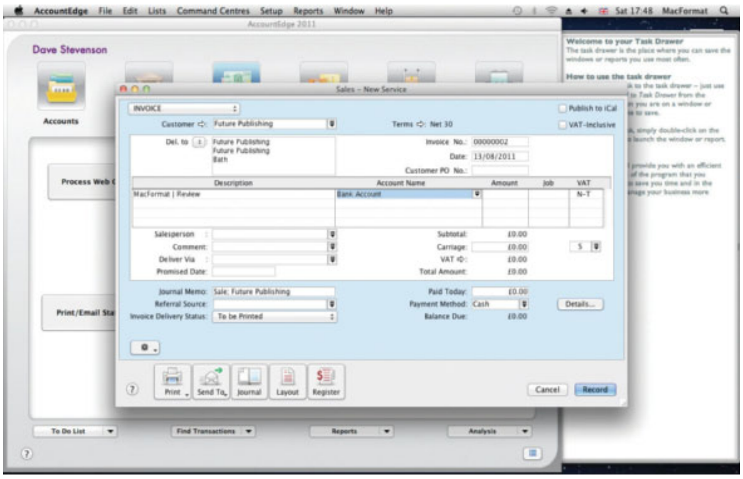
Two levels of protection are included. First, you can run scans on all the files on your Mac. It also checks files in real time as you download or copy them on to your drive. We tested *F-Secure* against several examples of live Mac malware, including variants of MacDefender and the more recent Olyx backdoor, which (if run) allows a remote user access to your file system. *F-Secure* blocked everything, both when running a scan and when we attempted to run the malware. Scanning isn't fast – we ran a scan on 200GB of files and had to do it overnight. But the real-time protection is instant, and delivers real peace of mind.

Ian Betteridge

>> BUSINESS ACCOUNTING SOFTWARE

Mamut AccountEdge 2011

£257 Small business account management


Dave Stevenson

Welcome to your Task Drawer
The task drawer is the place where you can save the windows or reports you use most often.

Sales – New Service

INVOICE
Customer: Future Publishing
Terms: Net 30
Del. to: Future Publishing
Future Publishing
Bath
Invoice No.: 00000002
Date: 13/08/2011
Customer PO No.:

Description	Account Name	Amount	Job	VAT
MacFormat | Review	Bank Account			N-T

Subtotal: £0.00
Carriage: £0.00
VAT: £0.00
Total Amount: £0.00
Journal Memo: Sale; Future Publishing
Invoice Delivery Status: To be Printed
Paid Today: £0.00
Payment Method: Cash
Balance Due: £0.00

AccountEdge
File
Edit
Lists
Command Centres
Setup
Reports
Window
Help
Sat 17:48
MacFormat
AccountEdge 2011
Accounts
Process Web
Print/Email Sta
How to use the task drawer
Publish to iCal
VAT-Inclusive
Salesperson
Comment
Deliver Via
Promised Date
Referral Source
Details...
Print
Send To
Journal
Layout
Register
Cancel
Record
To Do List
Find Transactions
Reports
Analysis

Generating invoices and managing which ones have and haven't been paid is easy.

KEY INFO

Developer: Mamut
www.mamut.co.uk

SPECIFICATIONS

OS: OS X 10.4.11
Processor: PowerPC G4 or better
RAM: 512MB **Disk space:** 250MB

PROS & CONS

- ⊕ Does virtually everything
- ⊕ Ideal for those running shops
- ⊖ Hard to get to grips with
- ⊖ Tricky interface

VERDICT

★★★☆☆

"Mamut has features aplenty, but its usability isn't all that great."

AccountEdge 2011 has a spectacular list of features, but of most importance to the self-employed is the ability to add clients, invoice them for work, and record payment. The bad news is that *AccountEdge* is neither the best-looking nor intuitive accountancy app we've seen – you need to pay very close attention while setting it up. The mandatory one-year service agreement included in the price entitles you to 'free' support, and once you've mastered the steep learning curve it supplies all the accountancy tools a small business could ask for, including integration with *iCal* and support for multiple companies.

Those running shops selling physical products are best catered for – if you want to generate a new invoice you need to click 'Enter Sales', for instance, which doesn't make much sense if your job involves billing by the hour or word. Tracking and billing clients for your time requires either the *Plus* or *Network* editions of *AccountEdge*, which cost £479 and £677 (including one-year service agreements). But if you do run a store, the integration between *AccountEdge* and Enstore.com's customisable e-stores will be appreciated. Confusingly, however, certain buttons on the window suggest drop-down menus, but in fact generate entirely new daughter windows when clicked.

It's nice to see a Mac-based client like this but don't forget there's also online accountancy software such as *FreshBooks* for Mac owners.

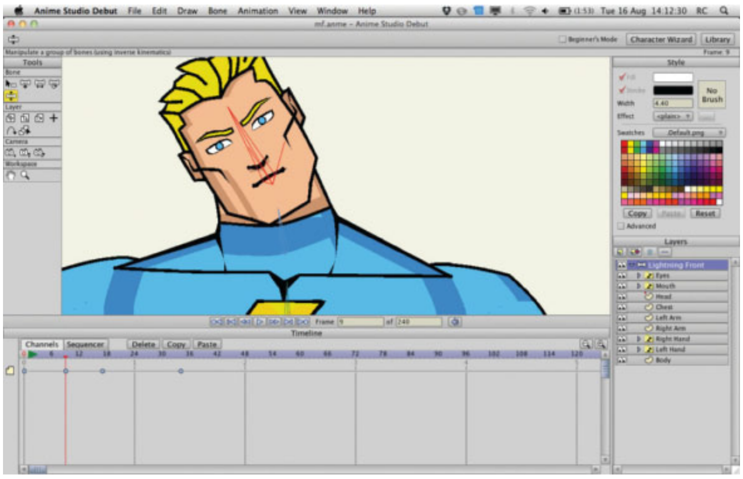
Dave Stevenson

>> ANIMATION

Anime Studio Debut 8

£27 Create cool animations in next to no time for hardly any cash

Anime Studio Debut 8 is an interesting new version of an application offering a decent animation toolset for very little cost. In fact, before we get into the nuts and bolts, we'd go as far to say that this application is outstanding value. Its toolset is comprehensive, it's easy to use and it's a hell of a lot of fun to play around with. Sure, its interface still isn't all that pretty, but it's forgivable when there's such a huge amount of functionality and power for under £30. You can draw your characters or objects from scratch using the app's drawing tools, import your own graphics or use the excellent stock libraries. What more could you want?



Anime Studio Debut 8 comes pre-loaded with anatomical shapes to create your character.

Rapid animation

The premise of *Anime Studio Debut 8* is simple: get animating quickly. And characters obviously play a huge part in this. The addition of the Character Wizard in version 8 helps you rapidly design cool characters to get animating with. On opening the wizard, you're presented with a series of sliders and presets. Pick a preset, such as 'Boy', and then use the sliders to change the character's height, leg length, arm length, foot length, facial features, movement, clothing and so on. If you're feeling lazy you can randomise a character (which often results in some bizarre yet humorous mutant creations).

> *"The premise of Anime Studio Debut 8 is simple: get animating quickly. And characters obviously play a huge part in this…"*

When you're done, you can animate your character, as the application's fully rigged with walk cycles and expressions (which you set up in the Movement tab of the Character Wizard). You can also export all views – meaning you have an animated character from all views (front, 3/4 right, back and so on). It's a really useful tool that can help get you started with animating characters in almost no time at all.

The other character-orientated facility (well, kind of) is the Trace Image tool. We've seen tools before that enable you to quickly vectorise sketches you've scanned in – and this works well on black and white images, with familiar options for Threshold adjustment and the ability to reduce detail and fatten lines. Once your character is in the app, you can edit it using the vector handles and then quickly add bones and animate it. It's great for animating those characters you've doodled in your sketchbook – and like the rest of the app, it's a lot of fun. You can even import native *Illustrator* and *Photoshop* documents to animate. Other new features include a cut-out effect and a Vector Shape Selector, which makes it easier to find and edit your vectors if you have a complex character or object.

Cultivating cartoons

Overall, *Anime Studio Debut* is a fantastic tool for animating characters and exporting short cartoons to SWF, AVI, MOV and directly to Facebook and YouTube. It's incredibly simple and entertaining to use – animating soon becomes a cinch and really is just a matter of editing your object or character as you move along the timeline. Even professional animation concepts such as rigging bones (through some nicely implemented binding tools) can quickly be mastered.

Back to basics

Developer Smith Micro's well-rounded application doesn't set out to offer the control or export options of, say, *After Effects*. But as a tool for beginners wanting to get to grips with the basics of character animation, *Anime Studio Debut 8* just can't be beaten.

Rob Carney

KEY INFO

Developer: SmithMicro

www.smithmicro.com

SPECIFICATIONS

OS: OS X 10.5 or higher

RAM: 256MB **Disk space:** 540MB

PROS & CONS

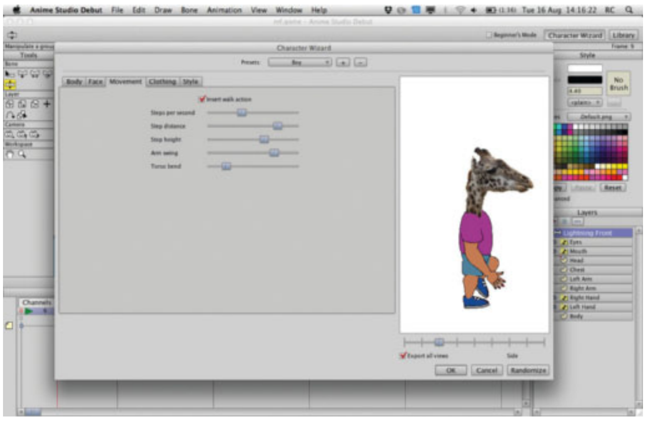
- ⊕ Excellent animation toolset
- ⊕ Neat new Character Wizard
- ⊕ Turn traced sketches into vectors
- ⊕ Excellent bone tools
- ⊕ Exports to a variety of formats
- ⊖ Interface still odd-looking

VERDICT

★★★★½

"The perfect app for those wanting to get into character animation but don't know where to start."

The Character Wizard is great for quickly creating some bizarre characters!



>>EMAIL SOFTWARE

Sparrow

Mac FORMAT Choice ★★★★★

£6.99 Can Sparrow compete with Apple Mail?

KEY INFO

Developer: Sparrow SAS
http://sparrowmailapp.com

REQUIREMENTS

OS: OS X 10.6 or later

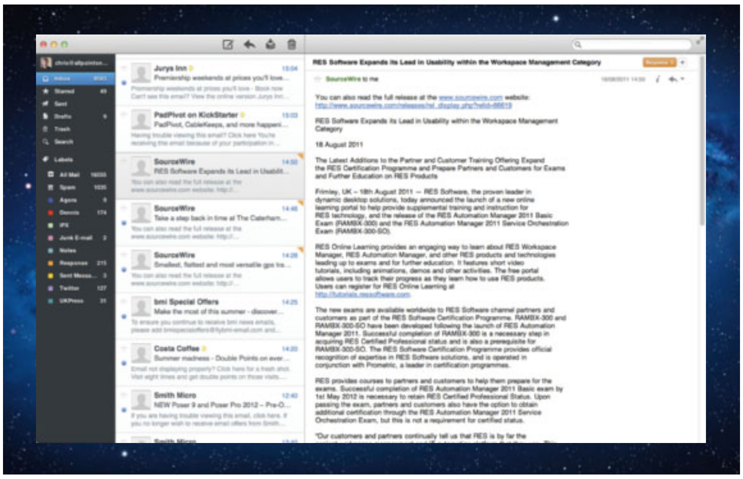
PROS & CONS

- ⊕ Excellent interface
- ⊕ Good range of features
- ⊕ Quick Reply feature
- ⊖ No smart folders or inboxes

VERDICT

★★★★★

"For £6.99 you'll be hard pushed to find a better alternative to mail."



Sparrow stands as one of the most viable alternatives to Apple's Mail application.

For many Mac users, the idea of paying for email software when OS X comes with the excellent *Mail* app seems a bit strange. However, *Mail* has started to fill out and for some it's at least become a little cumbersome. Too many features can be a bad thing.

Sparrow attempts to cut down on the extras and deliver a streamlined experience that gets you back on track and focused on your email. You can have a single column view that looks more like a Twitter app than an email one, or a more traditional multiple column layout.

Though the interface is simple and clear, the app offers some powerful features: multiple accounts and support for IMAP and POP servers, threaded conversations, labels and a menu bar notification system are just a few of the highlights. We really liked the quick reply feature, which allows you to send a simple response by opening up a small window to type your message into. We switched to the app effortlessly and found it very responsive. Searches were sometimes a little tardy in comparison to *Mail*, but not consistently much slower.

The interface is really clean and simple to learn. Our only reservation is the lack of smart folders and inboxes, which are a truly useful feature in *Mail*. However, if this is a feature of *Mail* that you don't use and you're looking for a *Mail* alternative then *Sparrow* is definitely worth the cash. If you're still not sure you want to commit, then try the free *Sparrow Lite*, to give yourself a taste of this fantastic little app.

Christopher Brennan

>>HTML5 ANIMATOR

Tumult Hype 1.0.4

£21 Full of promise or 'don't believe the hype'?

KEY INFO

Developer: Tumult Inc
http://tumultco.com/hype

REQUIREMENTS

OS: OS X 10.6.6+

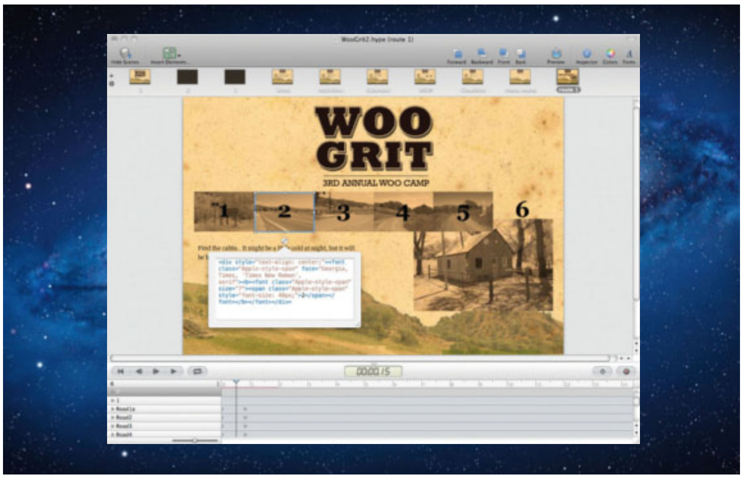
PROS & CONS

- ⊕ Straightforward keyframing
- ⊕ Helpful export warnings
- ⊖ Outputs impenetrable code soup
- ⊖ Very basic design tools

VERDICT

★★★☆☆

"A great 1.0 but of limited use for pro and amateur web designers alike."



Hype tries to make HTML5 animation simpler by way of a direct keyframing system.

Hype enables you to create animated and interactive content based on current web standards (HTML5, CSS3 and JavaScript, erroneously referred to collectively as HTML5). The interface is sleek and simple, enabling you to drag elements to a canvas, apply stylistic adjustments using an *iWork*-like inspector, and then work with a timeline to define each object's properties at user-defined keyframes. *Hype* then deals with the in-between bits for you.

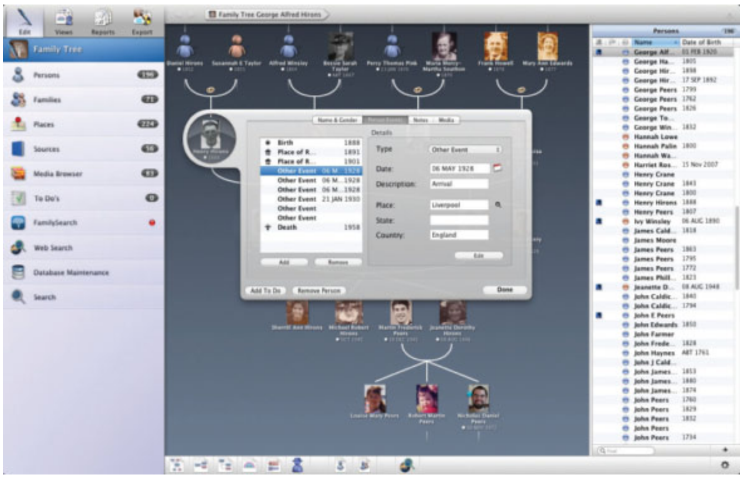
What *Hype* isn't – despite the claims of slightly over-enthusiastic Mac-based web designers – is a 'Flash killer'. It does provide some basic states and actions when working with objects, and you can create multiple scenes that can be jumped to by interacting with objects in various ways; but there's nowhere near the available flexibility and depth here for anything particularly complex. Also, while demos on the *Hype* site suggest it can be used for entire sites, its output – non-optimised images, impenetrable code – will steer pros away; however, we nonetheless reckon *Hype* has potential. First, it's useful for animation mock-ups that can then be built elsewhere; secondly, it's already suitable for basic animated content (banners, very small and integrated microsites) and is rather nice for working with to create them. Further limitations – no zooming, minor compatibility issues with even current browsers – also stop us wholeheartedly recommending *Hype*, but it's worth a look for the Flash-disillusioned and HTML5-obsessed.

Craig Grannell

>> GENEALOGY SOFTWARE

MacFamilyTree 6.1.3

$59 (around £36) MacFamilyTree gets a welcome update and embraces Lion



You can create and edit your tree while in Family Tree view – a more logical way to work.

The hallmark of any good family history tool is its ability to provide all the features and tools you need – some quite detailed and complicated – without overwhelming the first-time user with a complex and impenetrable user interface. *MacFamilyTree* does a reasonably competent job on both fronts, although its lustre is a little faded these days when placed next to the all-conquering application *Family Tree Maker*.

MacFamilyTree's user interface does take a little getting used to, but version 6 makes getting started with the application simpler than ever. That's because you can now build and edit your tree from within the Family Tree view. Input the basic details of a person using the cut-down Edit window, then add immediate relatives (spouse, parents and children) via the helpful buttons.

With the basics in place, you can then click on an individual to view them up close and add flesh to their bones. It strikes the perfect balance between getting the skeletal structure of your tree in place and letting you drill down to the nitty-gritty of your family's lives.

> *"MacFamilyTree's interface does take a little getting used to, but version 6 makes getting started with the app simpler than ever"*

The program divides itself into four sections: Edit, Views, Reports and Export. The actual building of your tree takes place in the Edit section, with all the tools always visible from the left-hand menu: people, families, places, sources, media browser and a brand new FamilySearch button all vie for attention.

Love-hate features

Elsewhere, the features on offer are by turns compelling and frustrating. While the media browser can now assign a single image to multiple people, families and events, the interface still feels clunky and a little dated – and we can't help but cast an envious glance at the facial recognition technology appearing in PC genealogy apps of late.

Similarly, we're left a little underwhelmed by the Places database – while you can assign precise co-ordinates to event locations, the map they're placed on is frankly useless next to the street-level view provided in *Family Tree Maker*. Even the new FamilySearch button, which promises to let you quickly integrate records from the new FamilySearch.org website into your research, is hobbled by the fact that the site is currently only accessible to LDS (Mormon) Church members.

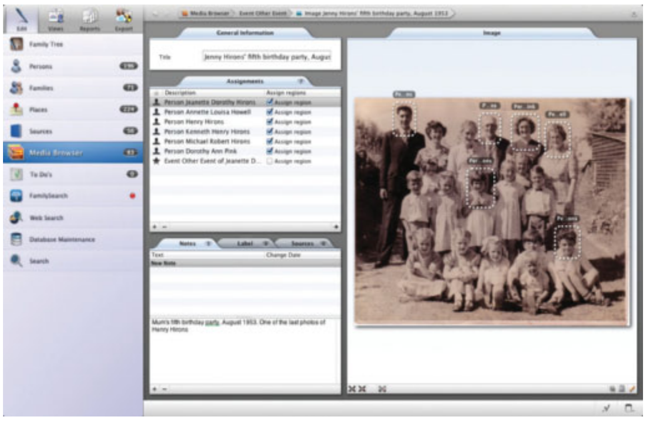
Despite this, *MacFamilyTree* deserves credit for the way it links different aspects of the program together, offering a variety of ways of steering through the program. This is neatly backed up by the navigation bar at the top of the screen, which provides a clearly labelled trail of your route, allowing you to move backwards quickly and easily.

Move to the View and Report sections of the interface and you'll find a pleasingly large number of charts and eye-catching reports you can create with a click of the button. You'll also find the striking 3D hourglass view of your tree here – gimmicky, perhaps, but a clever touch all the same.

Regular updates

MacFamilyTree also deserves credit for its frequent updates: version 6.1 introduced full Lion compatibility, while this minor update (6.1.3) enables you to run the application in full-screen view. It all adds up to a genealogy program that's both capable and pleasurable, if frustrating at times, to use.

Nick Peers



Individual images can now be assigned to multiple individuals, families or events.

KEY INFO

Developer: Synium Software
www.synium.de

REQUIREMENTS

OS: OS X 10.5.8
Processor: 1GHz
RAM: 1GB
Hard disk space: 450MB

PROS & CONS

- ⊕ Both powerful and versatile
- ⊕ Family Tree view easy to use
- ⊕ Supports full-screen view in Lion
- ⊕ Minor updates are frequent and free
- ⊖ Interface feels a little clunky
- ⊖ Map functions practically useless

VERDICT

★★★★☆

"A worthy family history app that remains sadly trapped in the shadow of Family Tree Maker."

>> TEXT AND CODE EDITOR

BBEdit 10

£35 Veteran editor gets a discount spruce-up

KEY INFO

Developer: Bare Bones Software
http://barebones.com

REQUIREMENTS

OS: OS X 10.6.8+

PROS & CONS

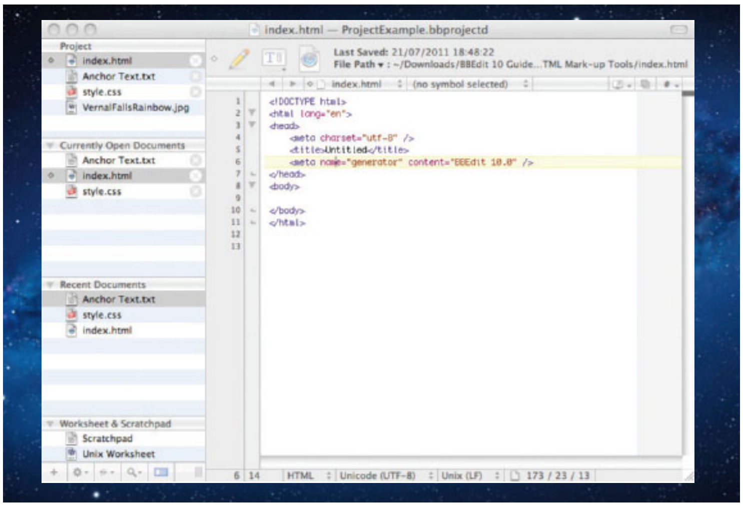
- ⊕ Edit inside archives
- ⊕ Mostly improved mark-up tools
- ⊕ Half the price of BBEdit 9
- ⊖ Some bugs and clunkiness

VERDICT

★★★★☆

"Good value for newcomers but a so-so upgrade for users."

BBEdit 10 is a hard app to judge. We're impressed that, now close to two decades old, it's soldiering on, and amused by its developer's remarks that it still "doesn't suck". But version 10 feels a little like papering over the cracks of a text editor that's starting to show its age. This is clear when it comes to the interface, which in previous versions had its troubles: some components have now been dragged kicking and screaming from the 1990s. The problem is snazzy new auto-resizing preferences are slightly less confusing but also marginally less flexible and quite a bit more annoying. Similar grumbles exist elsewhere, with revamped context-sensitive tag editing upping the eye-candy but dropping speed and efficiency. That said, despite a few bugs and quirks, this change is welcome and beneficial from a usability standpoint.



```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8" />
    <title>Untitled</title>
    <meta name="generator" content="BBEdit 10.0" />
</head>
<body>

</body>
</html>
```

Bare Bones' BBEdit: now approximately 37% prettier and 12% less efficient. But it's still decent.

Rather more successful is the revised projects window, which now integrates panes for currently open documents, recent documents, a Unix worksheet and a project scratchpad. The interface remains functional rather than boasting the polish and gloss of the likes of Panic's *Coda*, and the panes annoyingly cannot be resized, but they do make managing large projects simpler. We were also impressed with *BBEdit's* auto-resumption facility (which doesn't require Lion) and its ability to work inside Zip archives; the company notes how this is useful for EPUB development, but we think it's also a boon for coders who often fiddle with archives.

Craig Grannell

>> APP LAUNCHER

Snap 1.2

69p Launch your apps in a snap

Developer: Indragie Karunaratne and Tyler Murphy **URL:** http://indragie.com/snap

OS X Lion provides a similar app launcher to the one in iOS, but it's not much use if you're keyboard-oriented. *Snap* aims to cater for those wedded to the keyboard, enabling you to prod shortcuts to launch applications. By default, it applies shortcuts to 10 apps pinned in your Dock. Bizarrely, ⌘+, is used for *Finder*, clashing with the system shortcut for cycling windows (although you can redefine this), and then ⌘ and the number keys are used for the next nine. This is fine if you've few pinned apps but less useful if you've more. Luckily, *Snap* provides the means to turn off auto-assignment and define your own shortcuts for any installed app. Some additional preferences options provide the means to hide open apps with their launch shortcut and disable the HUD when an app is activated.

In a sense, it's a pity *Snap* doesn't go further than working with apps – if it also launched folders, we'd recommend it more strongly, and it could be a basic replacement for *Spark*; as it is, *Snap's* still worth consideration for keyboard lovers.

Craig Grannell

VERDICT

★★★☆☆

"Snap is cheap and simple, but we wish this launcher also worked on folders."

>> ISOLATION UTILITY

Quiet 1.3

£2.49 Shh! We're working here

Developer: WireLoad **URL:** http://wireload.net/products/quiet

Quiet reminds us of freebie app *Isolator*, in that you can use a keyboard shortcut to hide everything but the frontmost app, thereby enabling you to focus on a task. But where *Isolator* has a 'take it or leave it' approach, *Quiet* is configurable. You can choose black, wallpaper or a blur as the background, hide the Dock when focusing (although this reveals minimised windows on returning to standard mode), choose to focus on an app or a space (assigning a specific shortcut to each) and quieten *Growl*, *Adium*, *iChat*, *Mail* and *Skype* when in isolation mode.

Although OS X Lion brings focus-oriented full-screen modes, most apps don't take advantage of this and the feature only works with one screen, making *Quiet* handier for the easily distracted. *Quiet* also justifies its price tag over the free *Isolator* by being more flexible. In addition to the aforementioned options, you can switch apps in isolation mode to bring a second product forward and then refocus on whichever one you like. By contrast, *Isolator* forces you to focus on one app, which can make it a little limiting.

Craig Grannell

VERDICT

★★★★☆

"A considered, useful and stable tool for focusing attention on one or two applications."

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»TURN-BASED STRATEGY

Frozen Synapse

Mac FORMAT Choice ★★★★★

£19 (Steam) A turn-based strategy game in which you get to try before you die, as it were

KEY INFO

Developer: Mode 7
www.mode7games.com

REQUIREMENTS

OS: OS X Leopard 10.5.8, Snow Leopard 10.6.3 or later
Processor: 1GHz PowerPC or Intel
RAM: 512MB
Disk space: 220MB

PROS & CONS

- ⊕ Stylised visuals
- ⊕ Unique experimental play
- ⊕ Randomised maps
- ⊕ Large campaign mode
- ⊕ Superb online play
- ⊖ Confused plot

VERDICT

★★★★★

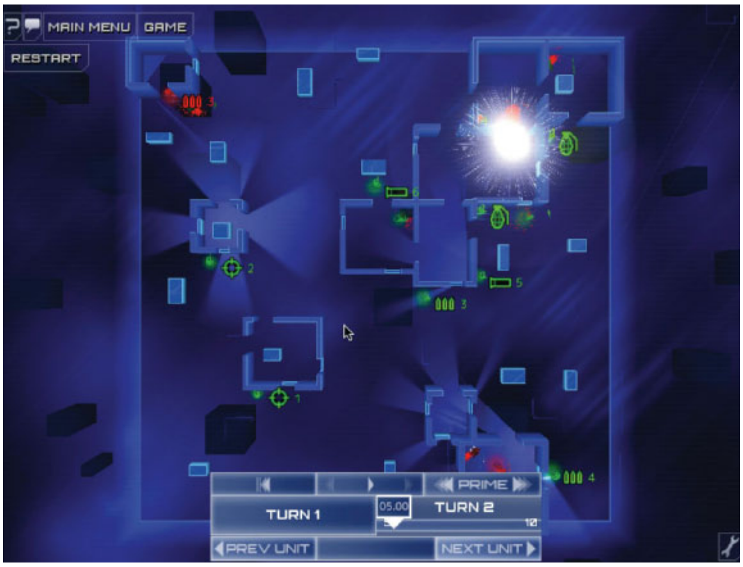
"An innovative, compelling strategy game with a superb suck-it-and-see approach to the genre."

We've tried to understand the basic plot of *Frozen Synapse* but the dialogue is so full of futuristic waffle and references to shadowy organisations that we can make neither head nor tail of it. But to be fair it doesn't really matter. All you really need to know is that you command a squad of combatants situated in a building and you have to take out all the enemy units therein to win. That's the basic aim, at least, but how you achieve that aim is what makes *Frozen Synapse* a unique and compelling challenge.

It's a turn-based strategy game, but unusually, each confrontation is played out in a sort of simulation of the real location, hence the stylised 'glowing' vector-style visuals. This conceit allows for a very interesting take on turn-based gaming. Here you can plan out your moves in advance of actually committing to them, assigning tasks to units, then hitting the 'play' button to see how your strategy pans out. If it's not to your satisfaction you can then go back in and tweak it.

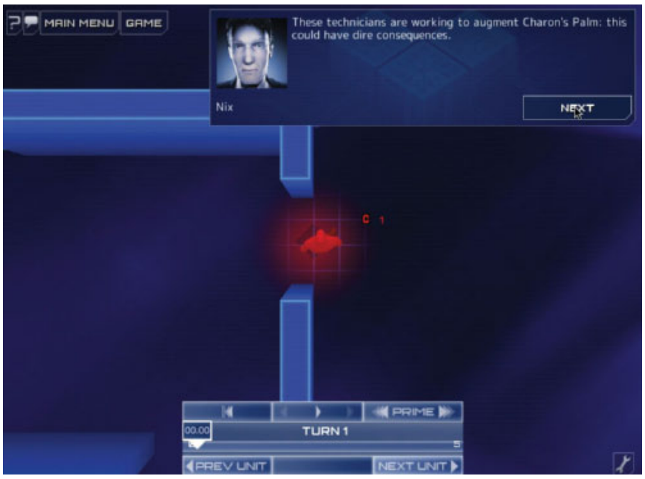
Squad control

Each player, whether it's you versus an AI opponent or you versus an online friend, controls their squad in the following way. First you select the unit types. These come in various forms, including gunners, snipers, grenade and rocket launchers. A typical turn will see you selecting a unit, specifying waypoints to which that unit will travel, then issuing specific orders. These can include getting them to crouch behind cover, aim their weapon in a specified direction or hold fire and keep moving.



Setting up a waypoint in the doorway and aiming at the enemy will give you an advantage.

Your strategy may seem sound, but what is your opponent up to?



These technicians are working to augment Charon's Palm: this could have dire consequences.

Since the game takes place entirely indoors, what separates you from your enemy is a combination of walls, doors and office furniture. Given that, you need to decide on a route to take, what to use as cover and even which bits of the scenery to blow up in order to more efficiently expedite your plans and complete the mission.

> *"It's a turn-based strategy game, but unusually, each confrontation is played out in a sort of simulation of the real location"*

Victory not so guaranteed

So, once you've issued all your orders for a given turn, tested them and tweaked them, it's just a case of watching your guaranteed victory, right? Wrong. Because while you're creating your masterplan, your opponent is doing exactly the same thing. Victory for individual units is decided very much in a paper-scissors-stone manner insofar as a unit behind cover will beat one that is not; while a unit that is aiming specifically at a target will win out over one that is simply ordered to engage automatically. So it's imperative that you take note of your enemies' positions and try to predict their next moves.

It's a compelling enough formula in the substantial single-player campaign, but it's one that becomes irresistible when playing online. Human participants can plan and play with strategies over time, receiving an alert to tell them when an opponent is ready to execute a turn.

Even if you have in the past been slightly reluctant to get into turn-based strategy gaming, *Frozen Synapse*'s trial-and-error approach might just be the thing that draws you in. Still not sure? Grab the Mac demo from http://bit.ly/jueCwf.

Andy Dyer

>> FIRST-PERSON SHOOTER

The Killing Floor

£20 (Steam) Zombie blasting is fun, but zombie blasting with a bunch of friends is funner

Zombies have been shuffling their way into our iOS games a lot lately and with titles like *Plants Vs Zombies, Resident Evil 4, Tactical Soldier* and *Infect Them All*, it seems the rotting fiends feel at home in almost any game genre.

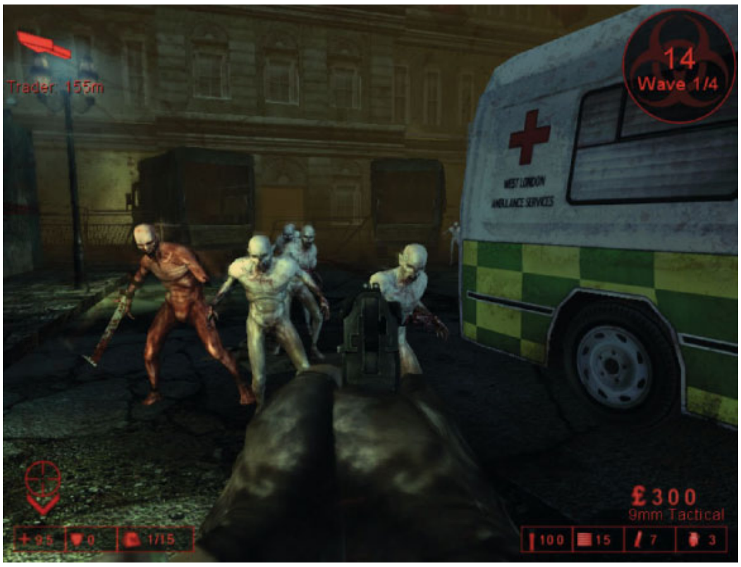
However, now it's the turn of desktop Mac owners to have some undead fun, with the release of a special bundled edition of Tripwire Interactive's mental co-operative survival horror game, *The Killing Floor*.

The Killing Floor was originally an *Unreal Tournament* mod that has since been developed into a standalone title, but the legacy of its modded beginnings are plain for all to see. For a start there is no coherent singleplayer campaign as such. That's not to say there's little to do here if you're playing alone. On the contrary there are 20 fairly substantial levels, inventive and detailed environments, scenes awash with flesh-hungry creatures, weapons galore and bosses. But two things make the singleplayer option a little unsatisfying. First, the lack of a narrative structure means you're always simply indulging in a bout of zombie blasting, rather than unravelling mysteries or forming attachments with any in-game characters, and so on.

In addition, because the gameplay is geared towards a multiplayer co-operative setup, the singleplayer option is awkward as you find yourself exhausted by not having any backup during such a relentless onslaught of cadaverous assailants. It's plenty scary: in terms of creating constant tension there's not an issue, but it's also plenty frustrating.

Which is why you need to get online and play *The Killing Floor* co-operatively as God intended.

> *"Because the gameplay is geared towards a multiplayer co-operative setup, the singleplayer option feels awkward"*



Is the ambulance for them or for us? The bad news is, it's almost certainly for us.

Each game involves attempting to survive a fixed number of waves of attacking zombies followed by a boss battle to finish. Attack waves lead to some pretty horrendous and full-on fighting as you attempt to find a suitably defensive position, hack and blast the zombies (sending flesh, blood and body parts spattering across the environment) and provide fellow players with backup and healing where necessary. After each attack wave there's a brief respite during which you can track down a trader in order to buy more ammo and upgrade weapons and armour.

Enhance yourself

In addition to upgrading your kit, you can also enhance your characters through the perks system, which allows you to level up certain skills (such as sharp shooter, demolitions, medic and so on) as you progress. This being a bundle of the base game and a bunch of character packs, you also have access to a whole range of amusing combatants, including our favourite: Captain Wiggins, resplendent in red jacket and massive bearskin hat.

The Killing Floor is not a slick product. The visuals are less than cutting edge, the voiceovers are amateurish and the singleplayer game is somewhat lacking in structure. It's a scrappy game in many ways, but the online multiplayer zombie blasting is unarguably entertaining. And as a relatively inexpensive experience it's funny, frightening and gratifyingly intense.

Andy Dyer

KEY INFO

Developer: Tripwire Interactive
www.tripwireinteractive.com

REQUIREMENTS

OS: OS X Leopard 10.5.8, Snow Leopard 10.6.3 or later
Processor: Intel Mac
Video: Nvidia or ATI GPU (Intel GPUs unsupported)
RAM: 512MB
Disk space: 2GB

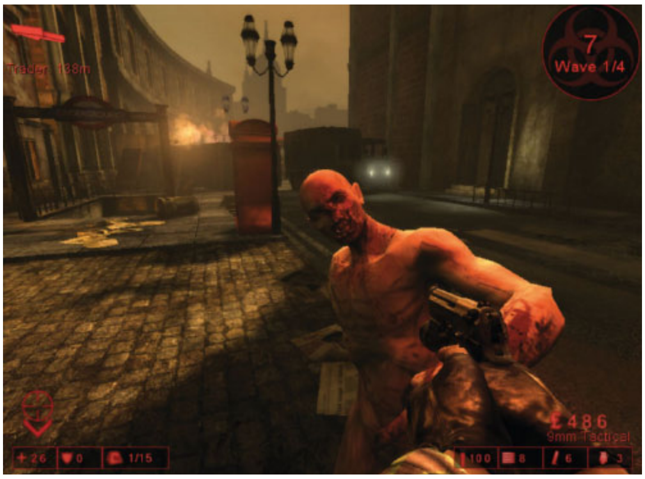
PROS & CONS

⊕ 20 maps
⊕ Loads of weapons
⊕ Heaps of gore
⊕ Hordes of enemies
⊖ No coherent singleplayer mode
⊖ Abysmal voice acting

VERDICT

★★★☆☆

"Look over the rough edges and The Killing Floor makes for a fun multiplayer romp indeed."



Hit him square in the face and you'll see his head fly off into the distance. Quite.

>> RACING

Fast Five the Movie: Official Game

£4.99 Can the game do the movie justice?

KEY INFO

Developer: Gameloft
www.gameloft.com

REQUIREMENTS

OS: OS X 10.6.6 or later
Disk space: 436MB

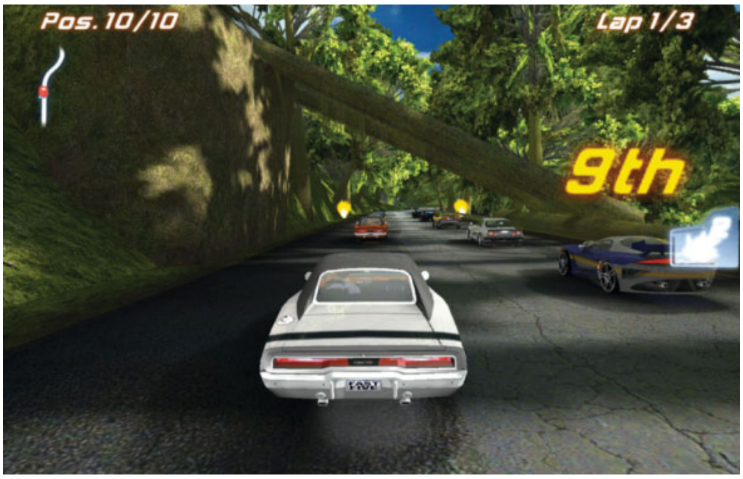
PROS & CONS

- ⊕ Great levels
- ⊕ Loads of cars
- ⊕ Five event types
- ⊖ No replays

VERDICT

★★★★☆

"A return to form for the movie franchise and a cracking racing game to go with it."



Hit the Nitro right from the off to get the edge on the other racers, but watch for road obstacles!

The 'Fast' movie series – beginning with *The Fast and the Furious* and culminating in *Fast Five* – isn't the most cerebral franchise ever created, but there is a guilty pleasure to be had in the brainless street-racing action. One thing's for sure: any game based on the latest movie is going to be a load of old boshed-out tosh… or so you would think. But no, in their usual manner, Gameloft has created a game that while doing absolutely nothing new, still manages to do what it does with a great deal of flair.

The 10-course singleplayer story mode follows the plot of the film, with static cut-scenes moving the plot along. The game itself follows a very familiar formula. Each course must be completed in four different ways, namely through Time Attack, Race, Drift, Elimination and Drag events. Success in these events unlocks new tracks and cars. It's a winning formula delivering fast racing which, because of the varied events, remains fresh throughout. The tracks not only look great, but feature loads of short cuts, jumps, expertly placed hazards and cinematic set pieces, such as exploding buildings that partially block the road. Best of all you can play online against up to 10 other racers.

On the negative side there are no replays, but it's a minor niggle about an otherwise highly enjoyable ride.

Andy Dyer

>> PLATFORM

Max & the Magic Marker HD

£6.99 Draw your way out of trouble

KEY INFO

Developer: Press Play
www.pressplay.dk

REQUIREMENTS

OS: OS x 10.6.6 or later
Disk space: 66MB

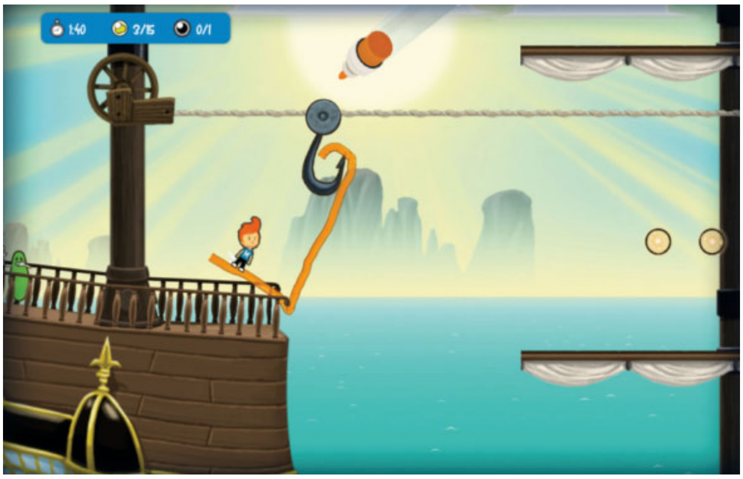
PROS & CONS

- ⊕ Beautiful visuals
- ⊕ Good level design
- ⊕ Inventive play mechanic
- ⊖ More variety needed

VERDICT

★★★★☆

"An inventive and extremely enjoyable romp. With better puzzles it could be a classic."



Draw a platform on this hook and Max can catch a ride, thanks to his Magic Marker. Clever stuff.

The aim of *Max & the Magic Marker* is to make your way through each of the game's platform-strewn levels to the exit using Max's magic marker, as well as his ability to run and jump. By collecting orbs, you fill the marker with ink and use it to draw objects which you can then interact with.

For example, when you find a platform that's too high to reach, draw some steps; if there's an enemy nearby, draw a large boulder-shaped object and it will fall and kill the bad guy. And when you encounter a seesaw, use a similar technique – draw a heavy object and use gravity to launch yourself into the air. Whatever you draw is subject to realistic physics, so you need to make sure the shapes are stable or attached firmly to the scenery, or they'll fall over or roll away.

It's a clever system and quite versatile. You can even draw a functioning seesaw entirely from ink, or create a giant brolly to save you from threatening rain. Unfortunately you end up drawing mostly steps and platforms, but the potential is there for more elaborate solutions. There are bonus orbs to collect but which require creativity to find, so replaying levels adds more depth to the game.

If there's a sequel, a little more creativity in the puzzles could make this game a truly magical experience.

Andy Dyer

Mac

MAMUT
www.mamut.com

Accounting Software for Mac

> AccountEdge has long been the best and most versatile business accounting package available for the Mac.

- Jeffery Battersby, Macworld

Free
Mobile App
for iPhone
and iPad

Grab
File
Edit
Capture
Window
Help
AccountEdge Plus 2011
Widgets Ltd
Accounts
Banking
Sales
Time Billing
Purchases
Payroll
Stock Control
Card File
Cards List
Reminder Log
Print Mailing Labels
Create Personalised Letters
To Do List
Find Transactions
Reports
Analysis

The Mamut AccountEdge series is available in three versions*:

Mamut
AccountEdge®
Basic accounting functionality, create sales, purchases & track VAT.

Mamut
AccountEdge Plus®
Includes inventory enhancements, multiple currencies & payroll.

Mamut
AccountEdge Plus NE®
Network edition for a multi-user working environment.

***From £149** + VAT + service agreement

Free trial: **www.mamut.co.uk/macformat** | Free phone: **0800 389 4091**

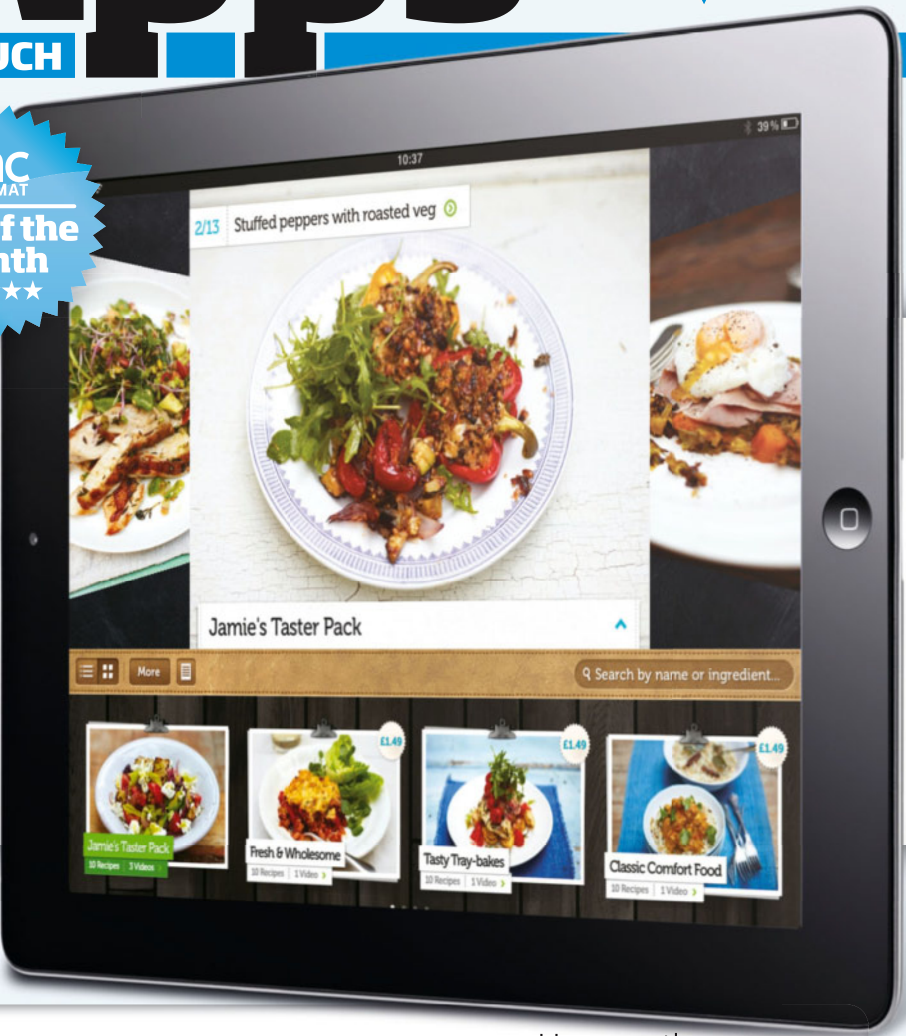
World of Apps

Reviews by: Graham Barlow, Laurence Cable, Andy Dyer, Tim Hardwick

>iPAD >iPHONE >iPOD TOUCH

>> THE BEST APPS FOR YOU!
Whether you've got an iPhone, iPod touch or an iPad, this is the best place to come to discover great new iOS apps and get the latest tips!

Mac FORMAT
App of the month
★★★★★


10:37
39 %
2/13 Stuffed peppers with roasted veg
Jamie's Taster Pack
More
Search by name or ingredient...
£1.49
Jamie's Taster Pack
10 Recipes 3 Videos
Fresh & Wholesome
10 Recipes 1 Video
Tasty Tray-bakes
10 Recipes 1 Video
Classic Comfort Food
10 Recipes 1 Video

Jamie's Recipes

Graham recommends: "Jamie Oliver's unique presentation style might not be to everybody's taste, but nobody can deny he knows a thing or two about recipes. These are step-by-step guides with pictures rather than video, so you can go at your own pace. You get 10 free recipes, with more available as relatively inexpensive and convenient in-app purchases. Lovely jubbly!"

Price: £FREE **Version:** 2.0 **Works with:** iPhone, iPad, iPod touch

Must-have apps

Here are the apps we've been obsessed with this month

Toca Robot Lab

69p Keeps the kids happy

Version: 1.0 **Works with:** iPhone, iPad, iPod touch

'Expertly crafted' is the phrase that best describes this brilliant kids' app for constructing fun robots and then flying them around. It's very simple, but we've found that preschoolers like its repetitive nature, and they love making different robots over and over again. A real bargain at 69p!

Mr Giggle

£1.49 A simple addictive puzzler

Version : 1.99 **Works with:** iPhone, iPad , iPod touch

Sometimes you just want a simple puzzle game to entertain you on your iPhone for a few minutes, and *Mr Giggle* is a perfect app for that. It's similar to *Bejeweled*: the idea is to line up three or more blocks of the same colour, but it's a bit easier because it gives you a big hint if you get stuck.

SoundTracking

£FREE Enhance your memories

Version: 1.1.1 **Works with:** iPhone, iPad, iPod touch

The iPhone is still throwing up odd new ways to share things, and this is the latest. With *SoundTracking* you can take a photo, then add a soundtrack to help capture the feel of the moment, then share it with your friends over social networks. Who knows if it will catch on, but it's a great idea.

Tap! APPS | GAMES | KIT THE iPHONE & iPAD MAGAZINE

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❯ Tap! magazine is dedicated to the iPhone, iPad and iPod touch. Find out more and buy at **www.tapmaguk.com**

INSIDE EACH ISSUE:

❯ The latest essential apps and games

❯ New kit for iPhone, iPad & iPod touch

❯ Learn to use your device with our guides

WE FIND THE BEST APPS & GAMES FOR YOU!
Tap!
UNLEASH THE POWER OF YOUR iPHONE!
Become an iPad and iPhone expert today
iPAD SPEAKER DOCKS TESTED
iOS in school

>> FOOTBALL HIGHLIGHTS

ESPN Goals

£FREE Watch Premiership highlights on your iPhone

Developer: ESPN Limited **Version:** 1.8 **Works with:** iPhone, iPod touch, iPad, iOS 3.0 or later

No, we're not having a laugh – this app really does bring Premiership highlights to your iPhone, iPod touch or iPad, completely free. You get to see goals and highlights within minutes of them happening (or at 5.15pm for games kicking off at 3pm on a Saturday). Highlights remain for 36 hours after the final whistle, so you've a reasonable window to catch up. There's more to it besides, including live match updates, but the video alone makes it a must-have for any fan.

VERDICT

★★★★½

"Free footy highlights? What's not to like? Get it, right now."

>> MIND MAPPER

iDesk

£3.99/£2.99 Sketch out your thoughts with ease

Developer: Ten Touch Ltd **Version:** 2.0 **Works with:** iPhone, iPod touch, iPad, iOS 4.0 or later

Map out ideas, draw flowcharts, Venn diagrams and more with *iDesk*, which comes in two versions. The iPad one curiously costing less than its iPhone sibling at the time of writing. It's simple to use, combining intuitive gestures with well thought-out features: draw something freehand that vaguely looks like a circle and it produces a perfect shape for you. The workspace expands dynamically and there are plenty of tools to customise your creations.

VERDICT

★★★★½

"A useful, beautiful and cleverly implemented design app."

>> COCKTAIL MAKER

The Cocktail App

£1.49 Mix up your favourite tipples

Developer: Moritz von Volkmann **Version:** 1.0 **Works with:** iPhone, iPod touch, iOS 4.1 or later

If you're as partial to Sex on the Beach as we are at *MacFormat*, you'll want to check out this cocktail app. Combining the history of 38 drinks with their recipes and preparation instructions, you'll be rustling up everything from a White Russian to a Bloody Mary in minutes.

While 38 recipes is a tiny number compared to some apps' offerings, this app beats most others on looks. It's beautifully designed: sharp, clinical and classy, just like the cocktails.

VERDICT

★★★★☆

"What it lacks in recipes, it more than makes up for in looks."

>> SCIENCE APP

DK The Human Body App

£9.99 Everything you want to know about your body

Developer: Dorling Kindersley Ltd **Version:** 1.0 **Works with:** iPad, iOS 4.0 or later

As children, we spent many an evening leafing through beautiful glossy Dorling Kindersley science books; and this app is like an interactive version of one of them. You can browse zoomable images of all the human body's systems, tapping the labels to find out more information.

There's plenty of detail, though finding your way around it can be a little confusing, with multiple ways of getting to the same point. But it looks lovely and makes a great helper for school projects.

VERDICT

★★★★☆

"Find out how just about anything on your body works."

Apps round-up

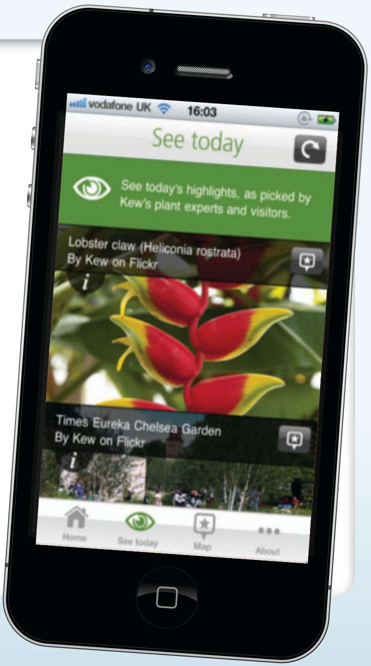
Tim's guide to more great apps now available on iTunes store

Calling all nature lovers! With autumn just around the corner, why not milk the last dregs of summer by taking a trip to the countryside at the next opportunity. But grab some of these nifty nature apps before you venture out. If you're the type who enjoys tracking through tranquil forestry, pick up ***TreeId* (£2.49, Isoperla Ltd)**. This app is a great field guide to trees of the British Isles, offering anatomical and ecological details, and high quality images of the leaf, flower and fruit of every species.

In a similar vein, ***Landscaper's Companion* (£2.99, Stevenson Software)** is a comprehensive reference guide to over 7,000 plants. From shrubs to hardy perennials, this app promises to make you an expert on our island's native flora.

As for fauna, the feathered variety is best represented on the App Store, with ***iBird UK* (£9.99, Mitch Waite Group)** enabling you to quickly identify birds using a range of attributes, from shape, size, colour, to even song and flight pattern. A cheaper, more basic alternative is ***Bird Identifier* (£1.99, CleverMatrix Ltd)** which features 147 visual records of the most common species in the UK, as well as an interactive map on which to plot your sightings.

If you'd rather enjoy a more eclectic sample of the great outdoors then check out ***Kew Gardens'*** free official app (right) and discover what's in bloom at Kew today.



See today's highlights, as picked by Kew's plant experts and visitors.

Lobster claw (Heliconia rostrata)
By Kew on Flickr

Times Eureka Chelsea Garden
By Kew on Flickr

Get TV on your device

Take your pick from these easy ways to enjoy TV shows

T-Mobile
16:40
100%
BBC iPlayer
TV
Radio
Favourites
Homes Under the Hammer
Series 13, Episode 82
CLICK TO PLAY
Add to favourites
1 hour
Expires in 6 days
BBC one

» KEY INFO

DIFFICULTY: Beginner

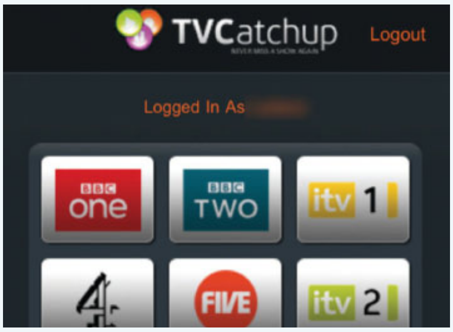
TIME NEEDED: 10 minutes

WHAT YOU'LL NEED: iPhone, iPad, iPod touch

Whether you have an iPad, iPhone or iPod touch, you can use it to watch live TV anywhere, even if you don't have an internet connection! But before we begin, there are a couple of things to bear in mind. The first is that if you're watching TV over the internet, it uses a fair bit of data. While this may not be an issue on your home broadband, some apps work over 3G as well, in which case you need to keep an eye on how much allowance you're using.

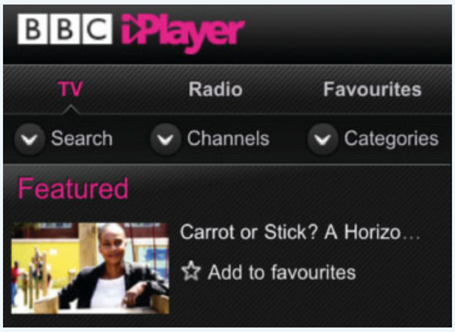
The second is that you need a TV licence to watch or record live TV. Your home licence covers your device wherever you use it, so long as it's running on its battery. If you plug it in elsewhere, it'll need to be covered by a licence for those premises.

» HOW TO / Watch TV on your iOS device


TVCatchup
Logout
Logged In As
BBC one
BBC TWO
itv1
4
FIVE
itv2

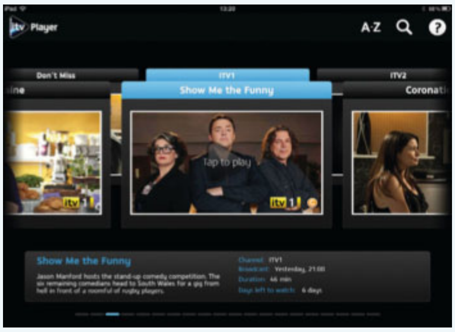
01 TVCatchup.com

Confusingly, this website isn't a catchup service, but in fact enables you to watch a huge range of live Freeview channels, including the main BBC, ITV and Channel 4 offerings. It's UK-only, and while the quality isn't brilliant, it'll work over 3G unlike many of the apps here.


BBC iPlayer
TV
Radio
Favourites
Search
Channels
Categories
Featured
Carrot or Stick? A Horizo…
Add to favourites

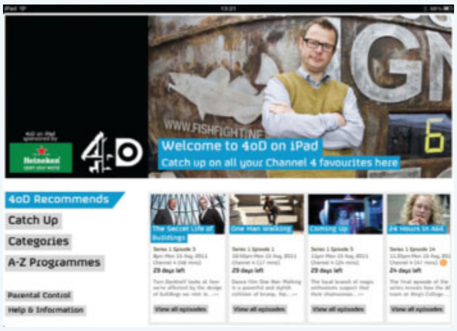
02 BBC iPlayer

In the UK, the BBC's catchup service is available as a free iPad app, or via **www.bbc.co.uk/mobile/iplayer** on the iPhone or iPod touch. You need to be connected to Wi-Fi for it to work. Picture quality is good, and if you live outside the UK, grab the subscription app.


itv Player
A-Z
Don't Miss
ITV1
ITV2
Show Me the Funny
Coronati
tap to play
Show Me the Funny

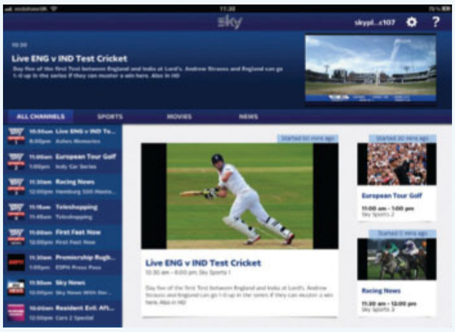
03 ITV Player

Like iPlayer, this is a free catchup app, but it isn't restricted to the iPad: it'll run on the iPhone or iPod touch as well. To use it, you must be in the UK and connected to a Wi-Fi network. There's a big selection of shows from all four ITV channels, available for a week after airing.


4oD
Welcome to 4oD on iPad
Catch up on all your Channel 4 favourites here
4oD Recommends
Catch Up
Categories
A-Z Programmes
Parental Control
Help & Information

04 4oD Catch Up

Catch up on selected Channel 4, E4 and More 4 shows that have aired in the last month using this free iPad app. Again, it's for UK users only and requires you to be connected to the internet via Wi-Fi. The US shows and Channel 4 classics archive aren't yet available in the app.


sky
Live ENG v IND Test Cricket
ALL CHANNELS
SPORTS
MOVIES
NEWS

05 Sky

Enjoy Sky Sports and other Sky channels on your iPhone, iPod touch or iPad using the Sky Go app. It's free if you're a Sky subscriber with Sports 1 and 2 in your package; you can register two iOS devices to use with it. Non-subscribers: try the Sky Mobile TV app.

equinux
tizi

06 Specialist hardware

There's a range of kit that enables you to watch TV on your iPad or iPhone. The equinux tizi or Elgato Tivizen are portable Freeview receivers that don't require an internet connection; also take a look at the Slingbox. For more, see **http://bit.ly/tvipad**.

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› New kit for iPhone, iPad & iPod touch
› Learn to use your device with our guides

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UNLEASH THE POWER OF YOUR iPHONE!

»SPORTS

Xtreme Wheels

£2.49 Remember the TV show Kick Start?

KEY INFO

Developer: Bravo Games
Version: 1.0
Works with: Universal, iPhone 3GS or better, iPod touch 4th gen, iPad, iOS 3.2 or later

PROS & CONS

+ Looks amazing
+ Superb physics
+ Great level design
– Too short

VERDICT

★★★★☆

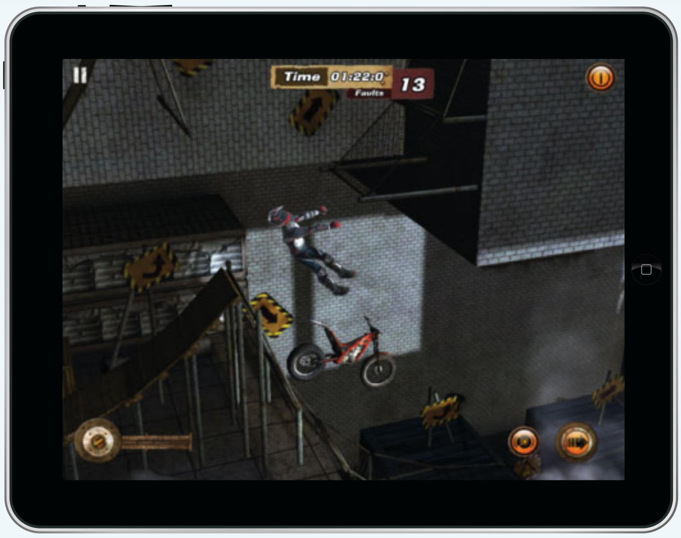
"A superbly designed game to challenge your skill."

If you're under 30 you won't remember a TV show called *Kick Start*, but it was brilliant. Motorcycle trials riders would try to get around courses made up of girders, barrels, cars and all sorts without falling off, and some of the tricks they pulled off were, frankly, mind-boggling.

This is much the same thing but in a game. The idea is to get to the finish line as quickly as possible, making as few mistakes as possible. There's no steering required so all you have to concentrate on is acceleration, braking and tilting your rider back and forth to alter the balance of the bike.

Though the controls are limited, the superb physics of the bike and increasing complexity of the level design give rise to a game of immense skill and dexterity. Through trial and error you'll learn all sorts of intricate techniques in order to overcome obstacles that seem at first insurmountable. For example, you'll learn to lean back, accelerate, then immediately lean forward and brake to bunny-hop an exploding barrel. Or perhaps you'll find that performing a back-flip at the top of a ramp will propel you to a platform that was out of reach.

It's frustrating and rewarding in just the right amounts to keep you coming back, and there's plenty of replay value in trying to better your time or gain more trophies. It's a little on the short side, but challenging enough to last a decent amount of time.



Part of the fun of Xtreme Wheels is in seeing the effects of the crunching wipeouts. Ouch!

»DRIVING

Reckless Getaway

£1.99 Avoid the law by driving irresponsibly

KEY INFO

Developer: Polarbit/Pixelbite
Version: 1.0.1
Works with: Universal, iPhone, iPod Touch, iPad, iOS 3.0 or later

PROS & CONS

+ Mental driving
+ Accidents encouraged
+ Fun power-ups
– Very difficult

VERDICT

★★★★☆

"An enormously enjoyable celebration of reckless road use."

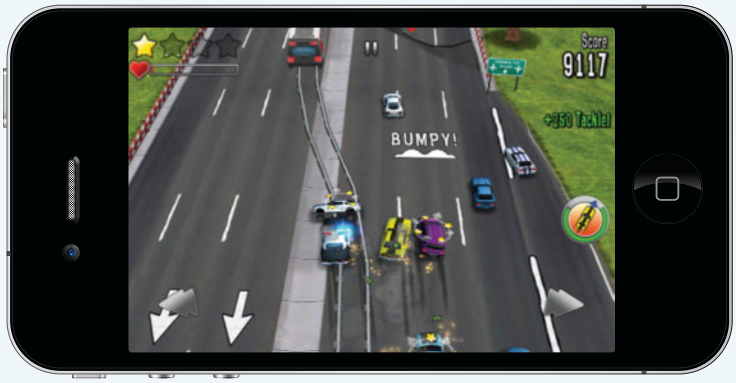
Not sure we should be encouraging wanton criminality in these troubled times, but it's not like we're recommending a looting app. No, *Reckless Getaway* is actually a lighthearted look at the wonderful world of post-robbery escapology.

Each level begins with a 'job' after which the player has to drive a getaway car through the streets, avoiding capture by the police, collecting coins, and destroying other road users before running the final police blockade to finish the level. Along the course of your escape you will encounter bridges, tunnels, off-road segments and various other features that test your driving skills. Additional points can be earned for close overtaking, driving on the wrong side of the road into oncoming traffic and getting a decent amount of 'air' over the jumps.

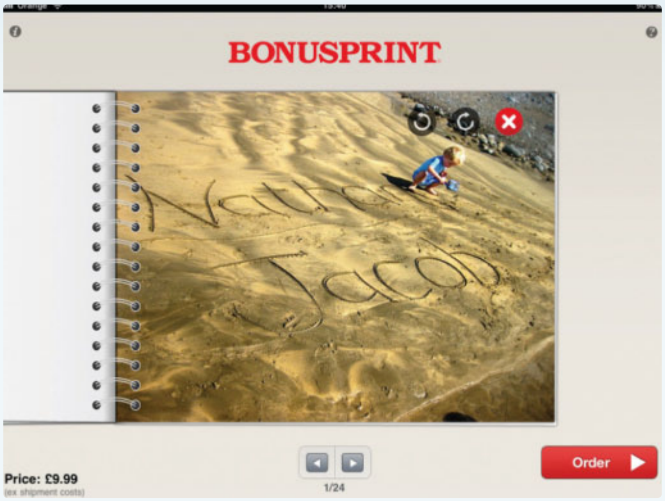
Despite the illegality of it all, this is tremendously good fun. Harassing other vehicles to the point of destruction is a delight thanks to some responsive controls and forgiving physics, and the gameplay is made all the more ludicrously fun by the inclusion of power ups that provide you with turbo boosts, jumps and a marvellous pulse weapon.

The only real problem with it is the slightly high difficulty level. You have to gain a certain number of stars to unlock subsequent sets of levels and this can prove incredibly hard, meaning you have to replay levels over and over until you've cracked it.

But if you're unafraid of a challenge, this is highly recommended and a blast from start to finish.



A bumpy road is actually the least of your worries. Cops and unfinished bridges pose a greater threat.



It's easy to create a photo book, but customisation options are too limited.

>> PHOTOGRAPHY

Bonusprint

£FREE Order a book of prints from your iPad

Developer: AlbumPrinter B.B. **Version:** 1.0.1 **Works with:** iPad

Bonusprint.co.uk is one of many websites that enable you to download a program to your Mac and create and order a photo book in various sizes and configurations, just like the photo books you can create in *iPhoto*. Now Bonusprint has created an app that does the same for the iPad, but while it's incredibly easy to use, it currently lacks the customisation options that you get from the website. You are limited to a basic 24-page spiral-bound book, in contrast to the vast array available online. Any photos you want to include must be in your iPad's *Photos* app too. It's nice, but too basic right now.

VERDICT

★★⯪☆☆

"A good first version, but badly needs more advanced features."

>> TRAVEL ADVISER

Travel Advice – UK

£FREE Get advice before you jet off

Developer: Edwin Bosire **Version:** 1.0 **Works with:** iPhone, iPod touch, iPad, iOS 4.1 or later

Before you book or travel to a new place, it's wise to find out a bit about safety, visas, the British embassy and the like. *Travel Advice* gets the information from the UK government and presents it as an app. It requires an internet connection; understandable if you want the latest data, but impractical if you're abroad. The app generally feels rather half-baked thanks to error messages and an interface that looks like it's been thrown together in a hurry.

VERDICT

★★☆☆☆

"Excellent idea, just a shame the execution's so poor."

>> LANGUAGE TRANSLATOR

SpeechTrans Ultimate

£13.99 Translate your speech

Developer: Speechtrans TM **Version:** 1.4 **Works with:** iPhone, iPod touch, iPad, iOS 3.0 or later

Say something to this app in one of seven common languages and it detects what you said, translates it into your tongue of choice and reads out the translation. The speech recognition is pretty good (the quieter the surroundings, the better), though the translations aren't always what a native would say. We can't see ourselves using it during conversations, but for learning a new language on your own, it's a useful tool to have in your armoury.

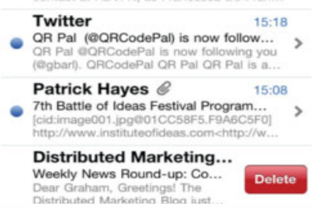
VERDICT

★★★⯪☆

"Impressive, if sometimes imperfect results."

Essential iOS Tips & tricks

Some expert tips to help you use your device to the full



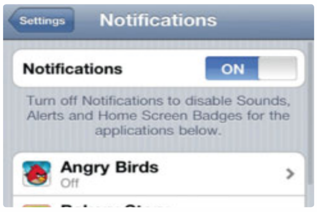
Twitter 15:18
QR Pal (@QRCodePal) is now follow…
QR Pal @QRCodePal is now following you (@gbarl). QRCodePal QR Pal QR Pal is a…

Patrick Hayes 15:08
7th Battle of Ideas Festival Program…
[cid:image001.jpg@01CC58F5.F9A6C5F0] http://www.instituteofideas.com<http://w…

Distributed Marketing…
Weekly News Round-up: Co…
Dear Graham, Greetings! The Distributed Marketing Blog just…

01 Quick delete

Don't waste time deleting an email that you don't want by opening it, then tapping on the Trashcan icon. In your inbox your can tap and swipe over the email preview and a red delete button will appear.



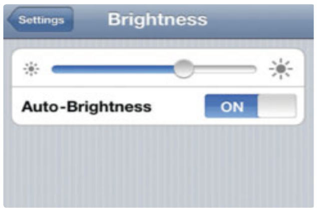
Notifications ON

Turn off Notifications to disable Sounds, Alerts and Home Screen Badges for the applications below.

Angry Birds
Off

02 Notifications

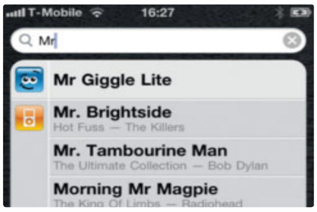
Gain control over which apps can interrupt your iPhone or iPad usage with a notification message. In the *Settings* app go to Notifications then either turn them all off or specify which individual apps can send you messages.



Auto-Brightness ON

03 Save battery

Running low on your battery and need to keep using your device? The biggest battery drain is the screen, so go to the *Settings* app and tap on Brightness. You can then lower the screen brightness using the slider.



Mr

Mr Giggle Lite
Mr. Brightside
Hot Fuss — The Killers
Mr. Tambourine Man
The Ultimate Collection — Bob Dylan
Morning Mr Magpie
The King Of Limbs — Radiohead

04 Quickly find

Looking for an app but can't find it on your device's various home screens? The quickest way to find it is to swipe right on the first home screen and then start to type its name into the search box. It will quickly appear.

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tv
D-Link
iomega
RESET
WD
POPBOX

Media streamers offer the same principal function, but that's where the similarities end.

Words: Richard Cobbett **Photography:** Joby Sessions

Media Streamers

Never be forced to watch your favourite shows and movies on a cramped monitor ever again

Television is all very well, but if it's still where you get most of your entertainment from, you're missing out. A good media streaming box does far, far more, hooking you up with great free online content, possibly direct-download rentals, and of course, any of your own videos.

Most media streamer boxes do roughly the same thing: they play any files you have. Almost all offer Ethernet connections for plugging into your home network, and if they don't have built-in wireless, there's invariably a dongle you can buy (you're better off with wired networking though, possibly via powerlines, to guarantee uninterrupted connections). Some have their own hard drives to store data. Others simply use USB ports so that you can attach a memory stick with the files on it. Almost all of them come into their own when you have a dedicated NAS on standby, which means you can easily add and organise your files via your Mac, without actually having to keep it switched on to play them later.

> *"Are media streamers all the same? Not even close. On top of their basic functions come many more"*

Are they all the same though? Not even close. On top of those basic functions come many more, from dedicated apps for services like iPlayer, to the iTunes Store access on the Apple TV. Which is the best all-rounder? Turn the page to find out.

DID YOU KNOW THIS?

Not every media streamer comes with a HDMI cable, and most stores will try and sell you an expensive one. We've found that cheap ones are just as good.

MEDIA STREAMERS / At a glance

	Apple TV	Boxee Box	Iomega Screenplay TV Link DX	PopBox 3D	Seagate Goflex TV	WDTV Live Hub 1TB
Price	£99	£180	£106	£139	£94	£200
Manufacturer	Apple	D-Link	Iomega	PopBox	Seagate	Western Digital
Web	www.apple.com	www.boxee.tv	www.iomega.com	www.popbox.com	www.seagate.com	www.westerndigital.com
Video Output	HDMI	HDMI	Composite, Component, HDMI	Component, HDMI	Component, Composite, HDMI	HDMI, Composite
HDMI Cable	No	Yes	Yes	Yes	No	No
Movie rentals	Yes	No	No	No	No	No
BBC iPlayer	No	Yes	No	Yes	No	No
Wireless	Included	Included	Not included	Not included	Not included	Not included
Dimensions	98x98x23mm	120x120x120mm	175x110x30mm	203x154x36mm	109x150x40mm	198x154x32mm
Weight	272g	1100g	295g	474g	300g	544g

GROUP TEST

[01] Apple TV
£99 www.apple.com

[02] Boxee Box
£180 www.boxee.tv

[03] Iomega Screenplay TV Link DX
£106 www.iomega.com

>> TEST ONE

Streaming

How the devices fare getting your own content flowing

This should be easy in theory. Create a Shared Folder on your Mac or plug in a uPNP-able NAS, and go. But in practice, it can be fiddly. Apple TV is by far the easiest to hook up to your Mac, plugging straight into *iTunes*, though it's heavily limited by the fact that *iTunes* can barely handle any formats at all. For the others, you usually get the smoothest ride with a dedicated NAS, or running a uPnP client instead of relying on OS X.

Aside from Apple TV, most support all the main media formats you're likely to have around, including most of those floating around the internet. You typically select them from file-based lists of Music, Video and Photos, although the Boxee Box and PopBox try to identify your files and present them in a more structured order – seasons, episodes, cover art and so on. Unfortunately, in practice Boxee failed miserably at identification, while the PopBox missed even the existence of many files.

>> TEST RESULTS

Apple TV	★★☆☆☆
Boxee Box	★★★☆☆
Iomega Screenplay TV Link DX	★★★☆☆
PopBox 3D	★★★★☆
Seagate Goflex TV	★★★☆☆
WDTV Live Hub 1TB	★★★☆☆

>> TEST TWO

New content

Want to stay in and watch something new?

The Apple TV is the only one of this set that offers proper movies and shows, obviously via the iTunes Store. If you buy a lot from there, no problem. Further afield, you're out of luck. Of the others, Boxee has the best range of online content, including the BBC iPlayer. The catch is that not all of it is guaranteed to play, and the way it categorises its collection leaves much to be desired. A movie about Hitler's bunker heading up Comedy? A dodgy-sounding Japanese film in Animation? Okay...

The others offer a mix of content. Almost all – even Apple TV – offer YouTube and Flickr, though neither iPlayer nor web shows are yet guaranteed. Only Boxee and Apple TV (if you're willing to pay) feel like devices you'd sit down in front to see what's new, which is a shame. In almost every case, you're limited to what can be streamed for free over the web, and there's no guarantee that your device's Flash player will ever be updated.

>> TEST RESULTS

Apple TV	★★★★☆
Boxee Box	★★★★☆
Iomega Screenplay TV Link DX	★★☆☆☆
PopBox 3D	★★★☆☆
Seagate Goflex TV	★★☆☆☆
WDTV Live Hub 1TB	★★☆☆☆

>> HOW WE TESTED / Streaming media

Every media streamer was connected up to a Sony HD TV via a standard HDMI cable, then attached to a home network via Ethernet. Where appropriate, the same series of test files in assorted formats, including AVI and WMV, were then fed into it from two sources, a Synology Diskstation NAS and a Mac mini, both linked to the home network via powerline networking. For the most part, each device was then expected to find the systems on the network itself – the exception being the Apple TV, which connects to a Mac mini in a very specific way, and has no interest in your NAS. The ability to plug in USB sticks with files on them was treated as standard – it works, but should be a backup measure at most. Any instructions provided were followed, and expected to work without any extra knowledge – something that should go without saying. While there's no way a manual can give you information like your NAS IP address, it should offer some pointers to how you might find it out, instead of simply saying you need to set up a shared folder.

APP LIBRARY
MOST POPULAR (234 ITEMS)
82°F
11:15 PM
Search
My Apps
App Library
YouTube
VEVO
TED
AOL HD.
MUBI
reddit
flickr
funny or DIE
SONY

A Sony HD TV provided the stage for our media streaming tests.

[04] PopBox 3D
£139 www.popbox.com

[05] Seagate Goflex TV
£94 www.seagate.com

[06] WDTV Live Hub 1TB
£200 www.westerndigital.com

>> TEST THREE

Ease of use

From opening the box to settling down to watch

Every media streamer here is very similar. Take it out of the box, plug in the HDMI cable (the PopBox also supports component or composite), Ethernet cable or wireless dongle and plug it in, and only punching in your internet settings should be left. Apple TV is by far the easiest to get running on your network, thanks to iTunes Sharing. With the exception of the PopBox (which took much fiddling) none had any trouble connecting to our NAS either. Mac-based sharing was a different story, with lots of error messages and cases where the streamers would see our test Mac but not actually be able to connect to it. A UPnP server is usually your friend here, but an added point of failure: none offer much, if anything, in the way of manual-based help.

With everything running, you're left with simple menus. The Boxee and Iomega win bonus points for their keyboard/remote control hybrids. Otherwise, there's little in it to separate them.

>> TEST RESULTS

Apple TV	★★★★☆
Boxee Box	★★★☆☆
Iomega Screenplay TV Link DX	★★★☆☆
PopBox 3D	★★☆☆☆
Seagate Goflex TV	★★★☆☆
WDTV Live Hub 1TB	★★★★☆

>> TEST FOUR

Interface

It's a media device – its look and feel count

For pure sleekness, nothing beats the Apple TV. It doesn't do anything like as much as the others, but what it does, it does beautifully. Boxee too stands out, with its heavy use of images and transitions between its own interface and services like iPlayer; we also liked options such as being able to prioritise your own content over web-based content. The only downside is that often, you're not getting as much as it looks like – a single episode of a show via Five's catch-up service being displayed as if it was a full series to sink into. It's disappointing when you're busy virtually channel-hopping.

The other streamers are all solid but unexceptional lookers – no interfaces that you'd be ashamed to have on your screen when guests are around, but with little that makes them more than the glorified *Finders* they basically are. The PopBox is rough and black, the WDTV Live colourful and chunky. The others land somewhere in the middle.

>> TEST RESULTS

Apple TV	★★★★★
Boxee Box	★★★★☆
Iomega Screenplay TV Link DX	★★☆☆☆
PopBox 3D	★★★☆☆
Seagate Goflex TV	★★★☆☆
WDTV Live Hub 1TB	★★★☆☆

>> THE WINNER / PopBox

If all your content is in *iTunes*-friendly form or bought from the iTunes Store, you really can't go wrong with the Apple TV. For most users though, it's just going to be too limited. Elsewhere, in terms of pure features, the Boxee Box would easily take the prize if it hadn't spent much of our test time falling on its face with goofs like insisting an old TV episode was the movie *Salt*… Having said that, it's still by far the best performer for web-based content. Unfortunately the cost of the Boxee still brings it down a peg or two.

That leaves the PopBox as the best all-round media streamer in our test – it offers iPlayer and other web content, good categorisation and a wide range of extra features. But be warned: the catch is that it can be a real pain to get running on first attempt. If you're not comfortable getting your hands dirty, don't rule out the Apple TV or WDTV Live Hub. We're confident either of those two will get you going much faster.

Mac FORMAT Winner!

>> FINAL RESULTS

Apple TV	★★★★☆
Boxee Box	★★★☆☆
Iomega Screenplay TV Link DX	★★☆☆☆
PopBox 3D	★★★★☆
Seagate Goflex TV	★★★☆☆
WDTV Live Hub 1TB	★★★☆☆

The PopBox isn't perfect, but it's the best all-round streamer here.

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www.whatlaptop.co.uk/sampler

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"The MacBook Air's glossy widescreen display sports 1366x768 pixels"

11" MACBOOK AIR SPECIFICATIONS P119

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Buyers' Guide

- DESKTOPS
- NOTEBOOKS
- iPADS
- iPHONES
- SOFTWARE

Tim Hardwick
Production Editor

You can tell a lot about Apple's future direction from what it chooses to leave out of its computers, rather than from what it puts in: Apple signalled the death of the floppy with the original iMac; still hasn't included Blu-ray in any of its computers (despite joining the Blu-ray Disc Association seven years ago); and it's now slowly killing off the SuperDrive, the CD/DVD optical drive that's conspicuously absent from the new MacBook Air and Mac mini. This makes perfect sense to Apple, which would like us all to get our music, movies and applications from iTunes, iCloud and the Mac App Store. But it's a contentious move for those of us who are still wedded to our existing CD and DVD movie collections.

Of course, you can still buy an external SuperDrive if you wish, but Apple's intentions are clear: optical disc drives will soon go the way of the floppy and digital downloads will be all.

>> BUYING ADVICE YOU CAN TRUST

Our mission is to ensure that when you buy a Mac-related product, you are completely informed about its best and worst features. We have a cast-iron policy of editorial independence. **For the latest prices and full review see the TechRadar URL listed next to each review.**

How to buy a new Mac

BUY FROM JOHN LEWIS and get a free 2 year warranty! p42

Not sure which Mac to buy? We'll help you choose!

The mid-2011 refresh brought quad-core Sandy Bridge processors to the iMac range.

Apple sells its products every which way at once. You can buy a Mac direct from the online Apple Store (http://store.apple.com/uk); from one of the growing number of bricks-and-mortar Apple Stores around the country; from official 'Apple shops' within department stores, staffed by certified Apple Solutions Consultants; and from hundreds of independent Apple Authorised Resellers and Premium Resellers, variously selling online or on the high street.

The bigger independents buy direct from Apple, while others go through a network of distributors, listed at www.apple.com/uk/buy/distributors. Given this range of outlets, shopping around for your Mac could save you money – but probably not very much. There simply isn't much profit margin for independent dealers to knock off. The Mac's popularity means Apple doesn't have to leave a big gap between its wholesale prices and Apple Store prices – effectively the minimum and maximum level at which retailers can sell their wares.

Authorised Resellers may knock a few pounds off Apple Store prices, and can also sell you other kit at competitive prices. Although you may find fractionally lower prices online, by choosing a local dealer you could get the benefit of trying before you buy and having someone on hand to answer questions. Either way, Mac resellers tend to be very knowledgeable and keen to help.

There are a couple of other ways to cut the cost of a new Mac. Business buyers can save a fortune by reclaiming the VAT and offsetting the purchase against tax. If you're not eligible, you may still qualify for a discount from Apple. Any student or teacher can get special pricing, as listed at http://bit.ly/jowOkc. That includes schoolkids. The reductions aren't huge, but they're worth having. For example, a top-of-the-range 27-inch iMac lists for £1,550, compared to the regular price of £1,649. Authorised Resellers can access these special rates and may even shave a bit more off for you.

"Cut the cost of your new Mac. Business users can save a fortune by reclaiming the VAT and offsetting the purchase against tax"

To help you find the cash, Apple also offers financing options. For consumers, this spreads the payments, though you do pay interest. For businesses, flexible leasing knocks more off your tax bill and lets you upgrade your hardware – and indeed software – when necessary without spending big chunks of capital. You can find out plenty more at www.apple.com/uk/financing.

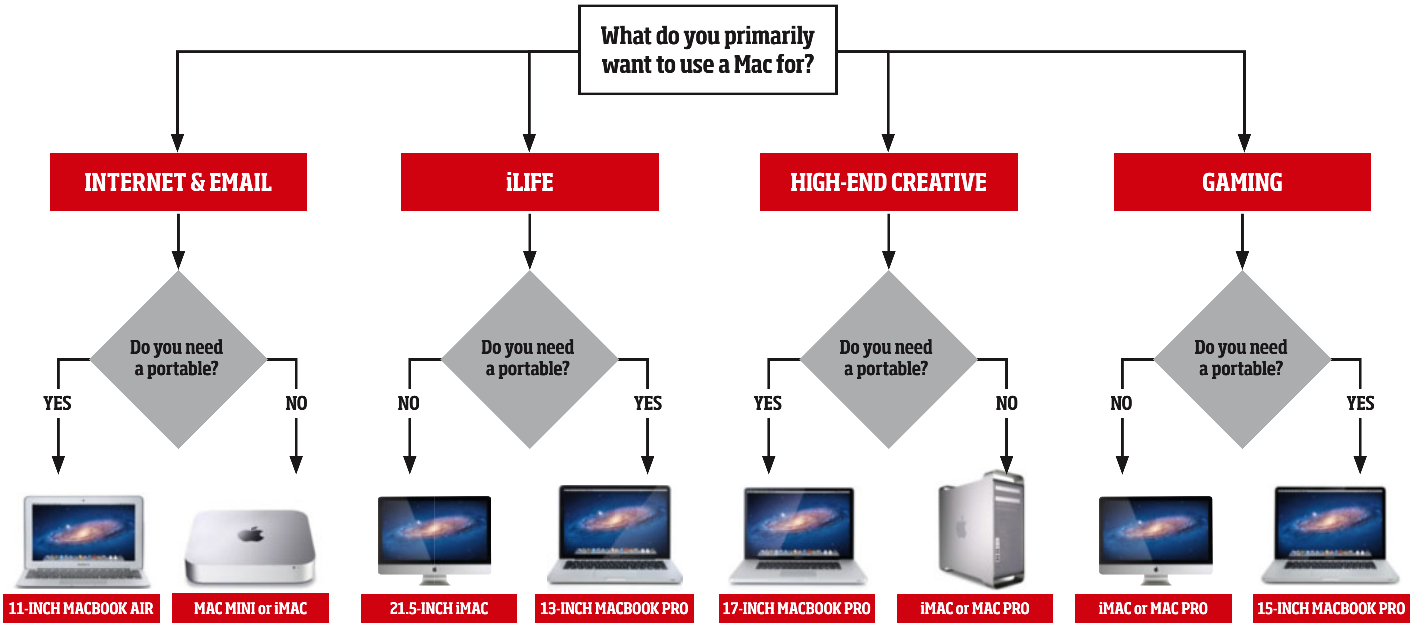
Your budget will stretch even further with clearance, refurb and second-user deals. If you can suppress your envy of marginally newer, shinier kit, the best time to shop for a Mac is

»DID YOU KNOW THIS?

The Mac Pro is also available in a Server Edition. Out of the box, it boasts a 2.8GHz CPU, two 1TB hard drives, 8GB of memory and OS X Lion Server preinstalled.

The Mac Pro offers an ATI Radeon HD 5770 with 1GB GDDR5 graphics card, a 1TB hard drive and an 18x SuperDrive.

CHOOSING A MAC / Which one is right for you?



just after Apple brings out new models. Wander down to John Lewis and you're quite likely to find the last of the old range with three-figure reductions. Do check the specs against the incoming versions, which will offer more for the same original price, but at the bottom end of the range you could pay less than the current entry-level for a perfectly good machine. Anywhere that holds Macs in stock is similarly worth a raid, and online retailers also have clearance bins.

Saving money

Apple itself has a surprisingly little-known online bargain basement at http://store.apple.com/uk/browse/home/specialdeals/mac. It's a treasure trove of cut-price kit, with some clearance items and many described as 'refurbished'. This usually means someone's bought a Mac, then changed their mind or found a problem and sent it back. Industry insiders tell us these returns often have absolutely nothing wrong with them, and in any case they're fully tested and any faults fixed before they're resold. They're guaranteed for a full year, extendable up to three years via AppleCare.

Besides deciding who to buy from, there's the tricky question of which Mac to pick. You can have a MacBook Pro, MacBook Air, Mac mini, iMac or Mac Pro. Most Mac families offer several standard models, plus plenty of built-to-order options, adding up to hundreds of possibilities.

Apple MacBooks come in a range of screen sizes, from the 11-inch Air to the 17-inch Pro

> *"There's the tricky question of which Mac to pick. You can plump for a MacBook Pro, MacBook Air, Mac mini, iMac or Mac Pro"*

By comparing the prices of different configurations – easily done at http://store.apple.com/uk – you can suss out the best value. For example, the entry-level 21.5-inch iMac is a bargain at £999. If you want a higher spec, the next option doubles the hard disk space and adds a more powerful graphics card, but it's an extra £250. However, you're not limited to the preset models. By clicking the Select button, you can tweak the listed specifications to create your own Mac. The only downside is that you'll need to allow a week or two for your own personal Mac to arrive.

Just think of it as an exercise in delayed gratification.

DID YOU KNOW THIS?

The latest MacBook Pros, released in February 2011, have new Sandy Bridge processors, great new graphics solutions and the new ultra-fast Thunderbolt connectivity port.

How to choose the perfect Mac

Let us help you make the right purchase. Here are your options…

iMac

Updated May 2011

21.5-inch 2.5GHz

£999

• 2.5GHz quad-core Intel Core i5 • 21.5-inch glossy widescreen (1,920x1,080 pixels)• 4GB RAM (expandable to up to 16GB) • 500GB hard drive • 8x double-layer SuperDrive • AMD Radeon HD 6750M graphics with 512MB GDDR5 memory • 4x USB 2.0 ports; 1x FireWire 800 port; 1x Thunderbolt port; 1xSDXC card slot • Ships with Mac OS X Snow Leopard, iLife '11, Magic Mouse, keyboard

21.5-inch 2.7GHz

£1,249

• 2.7GHz quad-core Intel Core i5 • 21.5-inch glossy widescreen (1,920x1,080 pixels) • 4GB RAM (expandable to up to 16GB) • 1TB hard drive • 8x double-layer SuperDrive • AMD Radeon HD 6770M graphics with 512MB GDDR5 memory • 4x USB 2.0 ports; 1x FireWire 800 port; 1x Thunderbolt port; 1xSDXC card slot • Ships with Mac OS X Snow Leopard, iLife '11, Magic Mouse, keyboard

27-inch 2.7GHz

£1,399

• 2.7GHz quad-core Intel Core i5 • 27-inch glossy widescreen (2560x1440 pixels)• 4GB RAM (expndable to up to 16GB) • 1TB hard drive • 8x double-layer SuperDrive • AMD Radeon HD 6770M graphics with 512MB GDDR5 memory • 4x USB 2.0 ports; 1x FireWire 800 port; 2x Thunderbolt ports; 1xSDXC card slot • Ships with Mac OS X Snow Leopard, iLife '11, Magic Mouse, keyboard

27-inch 3.1GHz

£1,649

• 3.1GHz quad core Intel Core i5 • 27-inch glossy widescreen (2560x1440 pixels) • 4GB RAM (expandable to up to 16GB) • 1TB hard drive • 8x double-layer SuperDrive • AMD Radeon HD 6970M graphics with 1GB GDDR5 memory• 4x USB 2.0 ports; 1x FireWire 800 port; 2x Thunderbolt port; 1xSDXC card slot • Ships with Mac OS X Snow Leopard, iLife '11, Magic Mouse, keyboard

Mac mini

Updated July 2011

2.3GHz 500GB

£529

• 2.3GHz dual core Intel Core i5 • 2GB RAM (2x 1GB 1333MHz) • 500GB SATA, 5,400rpm HDD • 3MB shared L3 cache • Intel HD Graphics 3000 with 288MB of DDR3 SDRAM shared with main memory• 802.11n WiFi, Bluetooth 4.0,10/100/1000BASE-T Ethernet • 1x Thunderbolt, 1xFireWire 800, 4x USB 2.0 ports • SDXC card reader • Lion, iLife '11 • HDMI video out with HDMI to DVI adapter • No optical drive

2.5GHz 500GB

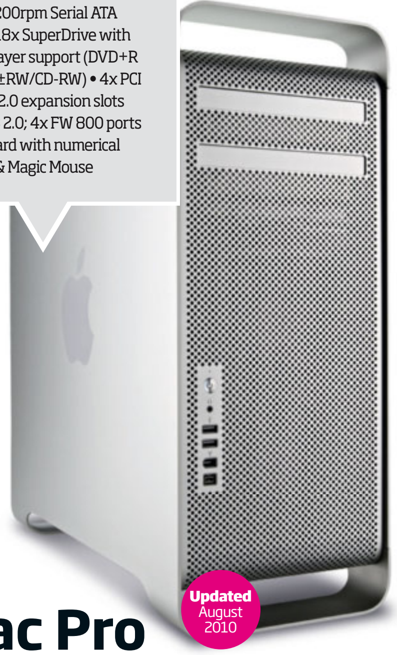
£699

• 2.5GHz dual core Intel Core i5 • 4GB RAM (2x 2GB 1333MHz) • 500GB SATA, 5,400rpm HDD • 3MB shared L3 cache • AMD Radeon HD 6630M graphics processor with 256MB of GDDR5 memory• 802.11n WiFi, Bluetooth 4.0, 10/100/1000BASE-T Ethernet • 1x Thunderbolt, 1xFireWire 800, 4x USB 2.0 ports • SDXC card reader • Lion, iLife '11 • HDMI video out with HDMI to DVI adapter • No optical drive

Quad-Core
£2,041
- 2.8GHz Quad-Core Intel Xeon
- 3GB RAM (expandable to up to 16GB) • ATI Radeon HD 5770 with 1GB of GDDR5 memory
- Two Mini DisplayPorts, one DVI port • 1TB 7,200rpm Serial ATA 3Gb/s • 18x SuperDrive with double-layer support (DVD+R DL/DVD±RW/CD-RW)
- 4x PCI Express 2.0 expansion slots • 5x USB 2.0; 4x FW 800 ports • Keyboard with numerical keypad & Magic Mouse

8 -Core
£2,859
- Two 2.4GHz Quad-Core Intel Xeon • 6GB RAM (expandable to up to 32GB) • ATI Radeon HD 5770 with 1GB of GDDR5 memory • Two Mini DisplayPorts, one DVI port
- 1TB 7,200rpm Serial ATA 3Gb/s • 18x SuperDrive with double-layer support (DVD+R DL/DVD±RW/CD-RW) • 4x PCI Express 2.0 expansion slots
- 5x USB 2.0; 4x FW 800 ports
- Keyboard with numerical keypad & Magic Mouse

12-Core
£4,083
- Two 2.6GHz 6-Core Intel Xeon
- 6GB RAM (expandable to up to 32GB) • ATI Radeon HD 5770 with 1GB of GDDR5 memory
- Two Mini DisplayPorts, one DVI port • 1TB 7,200rpm Serial ATA 3Gb/s • 18x SuperDrive with double-layer support (DVD+R DL/DVD±RW/CD-RW)
- 3x PCI Express 2.0 expansion slots • 5x USB 2.0; 4x FW 800 ports • Keyboard with numerical keypad & Magic Mouse



Updated
August
2010

Mac Pro

13-inch 2.3GHz
£999
- 13.3-inch LED-backlit glossy widescreen 1,280x800 pixels
- 2.3GHz dual-core Intel Core i5 processor • 7-hour battery
- 4GB (two 2GB SO-DIMMs) of 1333MHz DDR3 memory
- 320GB, 5,400rpm hard drive
- 8x slot-loading SuperDrive (DVD±R DL/DVD±RW/CD-RW)
- Intel HD Graphics 3000
- Mac OS X 10.6 and iLife '11
- 1x Thunderbolt port, 1x FireWire 800, 2x USB 2.0, 1x SDXC card slot

13-inch 2.7GHz
£1,299
- 13.3-inch LED-backlit glossy widescreen 1,280x800 pixels
- 2.7GHz dual-core Intel Core i7 processor • 7-hour battery
- 4GB (two 2GB SO-DIMMs) of 1333MHz DDR3 memory
- 500GB, 5,400rpm hard drive
- 8x slot-loading SuperDrive (DVD±R DL/DVD±RW/CD-RW)
- Intel HD Graphics 3000
- Mac OS X 10.6 and iLife '11
- 1x Thunderbolt port, 1x FireWire 800, 2x USB 2.0, 1x SDXC card slot

15-inch 2.0GHz
£1,549
- 15.4-inch LED-backlit glossy widescreen 1,440x900 pixels
- 2.0GHz quad-core Intel Core i7, 6MB shared L3 cache • 4GB 1333MHz DDR3 memory
- 500GB, 5,400rpm hard drive
- 8x slot-loading SuperDrive (DVD±R DL/DVD±RW/CD-RW)
- AMD Radeon HD 6490M graphics processor with 256MB of GDDR5 memory
- Mac OS X 10.6 and iLife '11
- 1x Thunderbolt port, 1x FW 800, 2x USB 2.0, 1x SDXC slot

15-inch 2.2GHz
£1,849
- 15.4-inch LED-backlit glossy widescreen 1,440x900 pixels
- 2.2GHz quad-core Intel Core i7, 6MB shared L3 cache • 4GB 1333MHz DDR3 memory
- 750GB, 5,400rpm hard drive
- 8x slot-loading SuperDrive (DVD±R DL/DVD±RW/CD-RW)
- AMD Radeon HD 6750M graphics processor with 1GB of GDDR5 memory
- Mac OS X 10.6 and iLife '11
- 1x Thunderbolt port, 1x FW 800, 2x USB 2.0, 1x SDXC slot

17-inch 2.2GHz
£2,099
- 17-inch LED-backlit glossy widescreen 1,920x1,200 pixels
- 2.2GHz quad-core Intel Core i7, 6MB shared L3 cache • 4GB 1333MHz DDR3 memory
- 750GB, 5,400rpm hard drive
- 8x slot-loading SuperDrive (DVD±R DL/DVD±RW/CD-RW)
- AMD Radeon HD 6750M graphics processor with 1GB of GDDR5 memory • Mac OS X 10.6, iLife '11 • 1x Thunderbolt port, 1x FireWire 800, 3x USB 2.0, 1x ExpressCard/34 slot

13-inch models
£1,099/£1,349
- 1.7GHz Intel Core i5 CPU
- 13.3-inch LED-backlit glossy widescreen at 1440x900 pixels • 128GB or 256GB of flash storage
- Intel HD Graphics 3000 processor • 4GB of 1333MHz DDR3 memory • Seven-hour battery life, or 30 days on standby • FaceTime camera
- 2x USB 2.0 ports, Thunderbolt port, 802.11n WiFi, Bluetooth 4.0 • SD reader • Lion and iLife '11

11-inch models
£849/£999
- 1.6GHz Intel Core i5 CPU
- 11.6-inch LED-backlit glossy widescreen at 1366x768 pixels • 64GB or 128GB of flash storage
- Intel HD Graphics 3000 processor • 2GB or 4GB of 1333MHz DDR3 memory
- Five-hour battery life, or 30 days on standby • FaceTime camera • 2x USB 2.0 ports, Thunderbolt port, 802.11n WiFi, Bluetooth 4.0 • Lion and iLife '11 preinstalled

Updated
July
2011

Updated
July
2011

Updated
Feb
2011

MacBook Air

MacBook Pro

What about an iPhone or iPad?

Apple's mobile devices are designed to sync perfectly with your Mac

»DID YOU KNOW THIS?

There are several models of Apple's iPad 2 to choose from. You can select storage capacities of 16GB, 32GB and 64GB. Each of these are available with Wi-Fi-only connectivity, or Wi-Fi and 3G.

Both the iPhone and iPad have a touchscreen, come with email and web-browsing applications and are capable of running third-party apps that you can get from Apple's App Store. But the iPad isn't simply a bigger iPhone. The iPhone is first and foremost a phone, and like all mobile phones, unless you buy it on Pay as You Go (which makes the device itself much more expensive) you're going to be tied into a phone contract.

If you want all the features of the iPhone but without the phone part, then consider getting an iPod touch instead (see over the page). If you're looking for a phone then you'll find the iPhone is designed to cover all your data needs while you're on the go, and fits in your pocket.

In contrast, the iPad is a device that sits somewhere between an iPhone and a Mac. It also comes with a 3G data contract option, but that doesn't include phone calls. The only phone calls you can make with it will be digitally, using VoIP apps, such as *Skype*. While a lot of people find the iPhone perfectly acceptable for home use, if you just need to check your email or do a quick bit of web surfing, the iPad is positively designed to be used from your sofa. It has built-in Wi-Fi, which means you can check emails and browse the web on your wireless network at home. Here it would fulfil most functions of a laptop, but don't fall into the trap of thinking of the iPad as a replacement for a home computer.

Use your iPad 2 to surf the web, run apps, send and receive emails, and listen to your music.

The iPhone 4 has a much better screen than previous models. This Retina display has a 960x640 pixel resolution.

> *"The iPad uses solid-state memory, so it's pretty-much instant on. There's no waiting around for it to boot up. It's also lightweight"*

It's fundamentally designed to be an accessory. You're meant to keep your data on your Mac and sync your iPad with it, not the other way around.

It does have some big advantages over a Mac laptop, though. For a start, because it uses solid-state memory it's pretty-much instant on. There's no waiting around for it to boot up. It's also lightweight, extremely portable and the perfect size to be used as an ebook reader.

The iPhone currently comes in two versions, the 3GS and iPhone 4. The latest model, the iPhone 4, features a stunning new 960x640 high-resolution display, making it much easier to read on-screen text. The screen itself is now IPS (in plane switching) for great viewing angles. However you hold it, the colours won't shift. There's also a front-facing camera for video chat and HD video recording using the rear camera.

The iPad 2 comes in black and white, each in three capacities, 16GB, 32GB and 64GB, available in Wi-Fi or Wi-Fi + 3G versions. Each 3G version costs £100 more than a Wi-Fi-only model with a similar memory capacity. Prices start at £399 for the 16GB Wi-Fi version, and go up to £659 for the top-range 64GB Wi-Fi + 3G iPad.

iPad 2

Updated
March
2011

iPad 16GB

£399 Wi-Fi
£499 Wi-Fi + 3G

• 9.7-inch LED-widescreen, 1024x768 pixels • 1GHz dual core Apple A5 CPU • 25Wh battery gives up to 10 hours use • 3.5mm stereo headphone jack • Built-in speaker & mic • 720p, 30 fps rear-facing camera, VGA front camera • GPS (iPad Wi-Fi + 3G only) • 241.2x185.7x8.8mm • 601g (Wi-Fi), 613g (Wi-Fi + 3G) • Accelerometer, three-axis gyro, ambient light sensor

iPad 32GB

£479 Wi-Fi
£579 Wi-Fi + 3G

• 9.7-inch LED-widescreen, 1024x768 pixels • 1GHz dual core Apple A5 CPU • 25Wh battery gives up to 10 hours use • 3.5mm stereo headphone jack • Built-in speaker & mic • 720p, 30 fps rear-facing camera, VGA front camera • GPS (iPad Wi-Fi + 3G only) • 241.2x185.7x8.8mm • 601g (Wi-Fi), 613g (Wi-Fi + 3G) • Accelerometer, three-axis gyro, ambient light sensor

iPad 64GB

£559 Wi-Fi
£659 Wi-Fi + 3G

• 9.7-inch LED-widescreen, 1024x768 pixels • 1GHz dual core Apple A5 CPU • 25Wh battery gives up to 10 hours use • 3.5mm stereo headphone jack • Built-in speaker & mic • 720p, 30 fps rear-facing camera, VGA front camera • GPS (iPad Wi-Fi + 3G only) • 241.2x185.7x8.8mm • 601g (Wi-Fi), 613g (Wi-Fi + 3G) • Accelerometer, three-axis gyro, ambient light sensor

iPhone

Updated
June
2010

iPhone 3GS 8GB

£428 (Pay & Go)

• Available in black • 3.5-inch widescreen • 320x480 pixels • Wi-Fi (802.11b/g) • Quad-band GSM, tri-band 3G • Assisted GPS • Bluetooth 2.0 + EDR • Photo and video geotagging • Battery lasts up to 30 hours (audio) • Battery lasts up to 10 hours (video) • Battery lasts up to 12 hours (talktime) • 115.5x62.1x12.3mm • 135g • Requires Mac OS X 10.4.11 or later

iPhone 4 16GB

£510 (Pay & Go)

• Available in black or white • 3.5-inch widescreen • 960x640 pixels • Wi-Fi (802.11b/g/n) • Quad-band GSM, tri-band 3G • Assisted GPS • Bluetooth 2.1 + EDR • Photo and video geotagging • Battery lasts up to 40 hours (audio) • Battery lasts up to 10 hours (video) • Battery lasts up to 14 hours (talktime) • 115.5x58.6x9.3mm • 137g • Requires Mac OS X 10.5.8 or later

iPhone 4 32GB

£612 (Pay & Go)

• Available in black or white • 3.5-inch widescreen • 960x640 pixels • Wi-Fi (802.11b/g/n) • Quad-band GSM, tri-band 3G • Assisted GPS • Bluetooth 2.1 + EDR • Photo and video geotagging • Battery lasts up to 40 hours (audio) • Battery lasts up to 10 hours (video) • Battery lasts up to 14 hours (talktime) • 115.5x58.6x9.3mm • 137g • Requires Mac OS X 10.5.8 or later

>> CHOOSING AN iPOD

Updated
September
2010

iPod shuffle 2GB

£40

• Up to 500 songs • No ability to display photos or videos

• Available in five colours; silver, blue, green, yellow, pink

• No screen, but the control pad returns • VoiceOver enables your iPod to talk to you

• 3.5-mm stereo headphone jack is used for both audio out and USB charging

• Battery lasts up to 15 hours

• 29x31.6x8.7mm • 12.5g

Updated
September
2010

iPod nano 8GB

£131

• Up to 2,000 songs • Up to 7,000 photos • Includes Nike+iPod support • Available in silver, black, blue, green, yellow, pink and red (Apple Store exclusive) • 1.54-inch diagonal Multi-Touch screen • 240x240 pixel resolution (220 pixels per inch) • Battery lasts up to 24 hours • Includes VoiceOver technology and an FM radio • 37.5x40.9x 8.78mm • 21.1g

iPod nano 16GB

£163

• Up to 4,000 songs • Up to 14,000 photos • Includes Nike+iPod support • Available in silver, black, blue, green, yellow, pink and red (Apple Store exclusive) • 1.54-inch diagonal Multi-Touch screen • 240x240 pixel resolution (220 pixels per inch) • Battery lasts up to 24 hours • Includes VoiceOver technology and an FM radio • 37.5x40.9x 8.78mm • 21.1g

Updated
September
2010

iPod touch 8GB

£193

• Up to 1,750 songs • Up to 10,000 photos • Up to 10 hours of video • Available in black • 3.5-inch screen, 960x640 pixels • Wi-Fi (802.11b/g/n, 802.11n at 2.4GHz only) • Nike + iPod support • Battery lasts up to 40 hours (audio) seven hours (video) • Video recording at 720p HD, up to 30 frames per second • 960x720 still photos • 111x58.9x7.2mm • 101g

iPod touch 32GB

£254

• Up to 7,000 songs • Up to 25,000 photos • Up to 40 hours of video • Available in black • 3.5-inch screen, 960x640 pixels • Wi-Fi (802.11b/g/n, 802.11n at 2.4GHz only) • Nike + iPod support • Battery lasts up to 40 hours (audio) seven hours (video) • Video recording at 720p HD, up to 30 frames per second • 960x720 still photos • 111x58.9x7.2mm • 101g

iPod touch 64GB

£336

• Up to 14,000 songs • Up to 50,000 photos • Up to 80 hours of video • Available in black • 3.5-inch screen, 960x640 pixels • Wi-Fi (802.11b/g/n, 802.11n at 2.4GHz only) • Nike + iPod support • Battery lasts up to 40 hours (audio) seven hours (video) • Video recording at 720p HD, up to 30 frames per second • 960x720 still photos • 111x58.9x7.2mm • 101g

iPod classic 160GB

Updated
September
2009

£197

• Up to 40,000 songs • Up to 25,000 photos • Up to 200 hours of video • Available in black and silver • 2.5-inch screen • 320x240 pixels • Battery lasts up to 36 hours (audio) • Battery lasts up to 6 hours (video) • 103.5x61.8x 10.5mm • 140g

Love this mag?
LOVE OUR APPS!

The Essential iLife '11 Handbook
iPad: The Essential Handbook
100 tricks and tips for iPad 2
The essential iLife '11 handbook
iPad
100 tricks & tips for iPad 2

Get them at:
www.myfavouritemagazines.co.uk/apps

Available on the App Store

BUYERS' GUIDE

KEYBOARDS & MICE

Apple Magic Trackpad

★★★★☆

Price: £60 **Reviewed:** Issue 226
Web: www.apple.com/uk
Full review: www.techradar.com/ 713555
Key specs: 13.13x13.01x1.83cm; Bluetooth connectivity; powered by 2x AA batteries; requires Mac OS X 10.6.4

⊕ Brings the MacBook's famous gestures to Apple's desktop range
⊖ Snow Leopard only

"Well conceived and beautifully executed, it's well worth a try if you use a Mac Pro, iMac or Mac mini at home or work."

Wacom Bamboo Fun Small ★★★★★

Price: £84 **Reviewed:** Issue 214
Full review: www.techradar.com/637575
Key specs: 1,024 pressure levels; Gestures
⊕ Gesture support, good software bundle
⊖ Expensive

Microsoft Arc Mouse ★★★★★

Price: £29 **Reviewed:** Issue 229
Full review: www.techradar.com/913796
Key specs: Wireless operation; foldable form factor
⊕ Highly portable. Has four customisable buttons
⊖ Might not suit those who like a small mouse

DISPLAYS

Apple Cinema Display

★★★½☆

Price: £918 **Reviewed:** Issue 229
Web: www.apple.com/uk
Full review: www.techradar.com/912746
Key specs: 27-inch LED screen, 2,560x 1,440, 12ms response time, 3x self-powered USB ports, iSight camera

⊕ Bright and sharp; good speakers; single cable to Mac
⊖ Height not adjustable; very expensive; average colour consistency

"The picture's sharp and the colours are bright and vivid, but just look at that price tag. Quality, but too expensive."

EIZO FORIS FS2331 ★★★★★

Price: £315 **Reviewed:** Issue 237
Full review: MF Issue 237 group test
Key specs: Good value mid-range monitor
⊕ Good text reproduction; excellent for gamers
⊖ No major drawbacks to speak of

Samsung FX2490HD ★★★★☆

Price: £266 **Reviewed:** Issue 230
Full review: www.techradar.com/908753
Key specs: 24-inch LED screen, 1,920x1,280 res
⊕ Great screen, good audio, includes TV tuner
⊖ Lacks adjustability, pricey and lacks HD channels

PRINTERS & ALL-IN-ONES

Canon PIXMA MP640

★★★★★

Price: £200 **Reviewed:** Issue 215
Web: www.canon.co.uk
Full review: www.techradar.com/644919
Key specs: Printer (9,600x2,400dpi, 5-ink printing); supports all major memory card formats; on-body printing

⊕ Phenomenal feature package; great print quality
⊖ Weak instructions might confuse newbies

"The mix of stellar print quality and an excellent feature package make the Canon MP640 a great buy."

Canon PIXMA MG6150 ★★★★★

Price: £150 **Reviewed:** Issue 227
Full review: www.techradar.com/719361
Key specs: Six-tank inkjet; touch-sensitive controls
⊕ Comprehensive connectivity; stellar print quality
⊖ Could be faster

Samsung ML-2855ND ★★★★★

Price: £154 **Reviewed:** Issue 221
Key specs: Mono laser printer
Full review: MF Issue 221 group test
⊕ Incredible value to run and great print quality
⊖ A little bulky, and obviously won't do colour

SPEAKERS/HEADPHONES

Sennheiser HD 518

★★★★★

Price: £95 **Reviewed:** Issue 235
Web: www.sennheiser.co.uk
Full review: www.techradar.com/954009
Key specs: Frequency response 14Hz-26KHz; cable length 3m; connector; 6.3mm stereo jack with 3.5mm adapter

⊕ Excellent sound quality; comfortable, lightweight design
⊖ Not great with low bitrate MP3s; no inline mic and controls

"Ideal for all-day listening, these headphones have audiophile chops aplenty. Very comfortable too."

Arcam rCube ★★★★★

Price: £500 **Reviewed:** Issue 231
Full review: www.techradar.com/926264
Key specs: Mains or rechargeable battery-powered
⊕ Stellar sound; robust and stylish; transportable
⊖ Harshly exposes heavily compressed MP3s

Orbit USB Stereo ★★★★½

Price: £33 **Reviewed:** Issue 236
Full review: www.techradar.com/963037
Key specs: 2x40mm drivers, travel bag included
⊕ Crisp, clear sound; very portable; good value
⊖ Bass not very prominent

DIGITAL CAMERAS

Canon IXUS 220HS

★★★★★

Price: £199 **Reviewed:** Issue 235
Web: www.canon.co.uk
Full review: www.techradar.com/932082
Key specs: 12.1MP resolution; 4.3-21.5mm lens f/2.7-f/5.9; electronic viewfinder 2.7-inch LCD with 230,000 dots

⊕ Stylish, tough steel body; easy to carry; high quality images
⊖ LCD reflections in the sun

"Even at lower settings, this camera impresses with the detail it captures. A good choice for snapping social events."

Samsung WB2000 ★★★★½

Price: £266 **Reviewed:** Issue 228
Full review: www.techradar.com/905154
Key specs: 10MP; 4.3-21.5mm lens; SD and SDHC
⊕ Superb image quality; 1080p video; creative
⊖ Some handling issues

Panasonic Lumix DMC-GH2 ★★★★☆

Price: £750 **Reviewed:** Issue 232
Full review: www.techradar.com/926611
Key specs: 18.32MP; 14-42mm lens; SD/SDHC/SDXC
⊕ Smooth video output; articulated LED screen
⊖ Some small controls; too expensive

DIGITAL VIDEO CAMERAS

Sony HDR-CX115E

★★★★★

Price: £300 **Reviewed:** Issue 233
Web: www.sony.co.uk
Full review: MF Issue 233 group test
Key specs: 1920x1080 resolution; 2.7-inch LCD; covers MPEG4-AVC and H.264 recording formats

⊕ Excellent all-round performance, and a compact, portable form factor
⊖ There are cheaper camcorders around

"The Sony provides you with all you'd want from a camcorder, with excellent build, features and quality."

Canon HV30 ★★★★½

Price: £1,140 **Reviewed:** Issue 201
Full review: www.techradar.com/468942
Key specs: HDV; DIGIC II processor; MiniDV/SD card
⊕ Superb stills and video; better than HDD
⊖ Cumbersome to use

Samsung VP-HMX 20C ★★★★☆

Price: £375 **Reviewed:** Issue 202
Full review: www.techradar.com/528224
Key specs: 2.7-inch LCD; movie capture at 2.1MP
⊕ Good screen; lightweight; offers full HD
⊖ Really need to shop around for price

ROUTERS/NETWORKING

AVM FRITZ!Box 7390

★★★★★

Price: £250 **Reviewed:** Issue 229
Web: www.fritzbox.eu
Full review: www.techradar.com/912929
Key specs: 802.11n, g, b and a; dual band 2.4GHz and 5GHz; power consumption 6-8 watts; integrated DECT base station

⊕ Packed with features, including dual band wireless 'n'; very fast
⊖ Expensive, especially if you don't want the telephony functions

"Fast and feature-rich, the FRITZ!Box 7390 could transform your home network. Great traffic-shaping features too."

Devolo dLAN Wireless 'n' ★★★★☆

Price: £115 **Reviewed:** Issue 231
Full review: www.techradar.com/926334
Key specs: Three Ethernet ports plus Wi-Fi
⊕ Easy to set up and use; versatile; fast speeds
⊖ A little bulky for some skirting boards

Cisco Linksys E4200 ★★★★☆

Price: £169 **Reviewed:** Issue 237
Full review: www.techradar.com/938920
Key specs: Six Wi-Fi antennas, four Ethernet ports
⊕ Traffic management features; good range
⊖ No built-in modem

STORAGE

Seagate GoFlex Slim

★★★★☆

Price: £74 **Reviewed:** Issue 236
Web: www.seagateactive.com
Full review: MF Issue 236 group test
Key specs: 320GB capacity; USB 3.0 port can be replaced with FireWire or Thunderbolt port; ultra-thin

⊕ NTFS-formatted for PC and Mac compatibility, with drivers included
⊖ Not a great range of capacities at the time of writing

"A good looking, well built and versatile drive with a prestige to match its name. It's extremely portable too."

Buffalo Dualie 500GB ★★★★½

Price: £119 **Reviewed:** Issue 220
Full review: www.techradar.com/678951
Key specs: USB 2.0 and FireWire connectivity
⊕ Attractive, robust, space-saving design
⊖ Expensive; drive slows when iPhone docked

DataTraveler Locker+ 8GB ★★★★½

Price: £20 **Reviewed:** Issue 232
Full review: www.techradar.com/930867
Key specs: 256-bit AES security
⊕ Password-protects your data; good price
⊖ Can't function without its launcher app

100 tricks and tips for iPad 2
100 tricks & tips for iPad 2
T3 the world's greatest gadget magazine
MacFormat magazine

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Make more of your iPad TODAY!

The 2012 iPad Handbook is the perfect companion for getting even more from your iPad – whatever you use it for. With 180 pages of advice and over 150 app reviews, this is the only guide you need!

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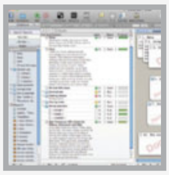
BUYERS' GUIDE

HOME OFFICE

Scrivener 2.0



★★★★★

Price: £30 **Reviewed:** Issue 229
Web: www.literatureandlatte.com
Full review: www.techradar.com/913378
System reqs: A Mac with either an Intel or an older PPC procesor can be used; minimum version of OS X is 10.4: Tiger

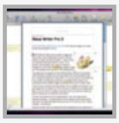
⊕ Great new features; improved corkboard; better outlining
⊖ Some aspects are quite complex

"Far and away the best application available for long-form writing, on any platform. A superb update."

MS Office for Mac 2011 ★★★★☆

Price: From £76 **Reviewed:** Issue 228
Full review: www.techradar.com/903277
System reqs: OS X 10.5.8 or later; Intel Mac
⊕ Cheaper and faster than 2008; new features
⊖ No upgrade pricing

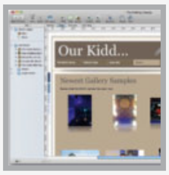
Nisus Writer Pro 2 ★★★★★



Price: £49 **Reviewed:** Issue 237
Full review: www.techradar.com/974528
System reqs: OS X 10.4 or later
⊕ Clean, fast and stable; EPUB export
⊖ Nisus Writer Express might be enough

VISUAL TOOLS & LAYOUT

Freeway 5.5 Pro



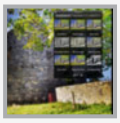
★★★★★

Price: £155 **Reviewed:** Issue 230
Web: www.softpress.com
Full review: www.techradar.com/919171
System reqs: Mac OS X 10.5 or higher; Intel or PowerPC processor; Tiger users can run Version 5.4.3

⊕ Powerful layout controls; built-in web image optimising; new features
⊖ Weak HTML import; only one undo

"Freeway 5.5 Pro is great for website design work, and doesn't ask for a degree in coding first."

Ohanaware HDRtist Pro ★★★★★



Price: £20 **Reviewed:** Issue 235
Full review: www.techradar.com/954888
System reqs: Mac OS X 10.5 or later; 1GB RAM
⊕ Great value for money; ideal for novices
⊖ No zoom function for fine detail

Photoshop Elements 9 ★★★★½

Price: £58 (£65 bundled) **Reviewed:** Issue 227
Full review: www.techradar.com/719934
System reqs: OS X 10.4.11+, Intel Mac, 512MB
⊕ New Guided Edit mode; Layer masks; Organizer
⊖ Some features not so effective

SYSTEM UTILITIES

Bjango iStat Menus 3

★★★★★

Price: £11 **Reviewed:** Issue 223
Web: www.bjango.com
Full review: www.techradar.com/694688
System reqs: OS X 10.5 or later. The last version to offer compatibility with OS X 10.4: Tiger was iStat Menus 1.3

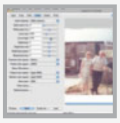
⊕ Updated interface; simpler intstallation; great new features
⊖ It's no longer free, though it's certainly worth paying for

"A solid upgrade to what was already a first-rate add-on for any Mac. A great application that continues to improve."

Roxio Toast 11 Titanium ★★★★½

Price: £85 **Reviewed:** Issue 233
Full review: www.techradar.com/936399
System reqs: OS X 10.5 or later, Intel Mac
⊕ Great new features, slick new interface
⊖ Fickle VIDEO_TS conversion

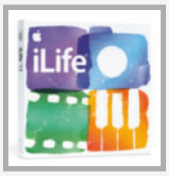
VueScan 9.0 ★★★★★



Price: From $40 (£12) **Reviewed:** Issue 231
Full review: www.techradar.com/926342
System reqs: OS X 10.3.9 or later
⊕ Extends the life of out-of-date scanners
⊖ The wizard could do more

MULTIMEDIA SOFTWARE

Apple iLife '11



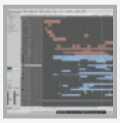
★★★★½

Price: £46 **Reviewed:** Issue 229
Web: www.apple.com/uk
Full review: www.techradar.com
System reqs: Intel processor; 1GB RAM; Mac OS X 10.6.3 or later; 5GB HDD space; display, min. 1280x768-pixel resolution.

⊕ Great new features for iPhoto, iMovie and GarageBand
⊖ iDVD and iWeb not updated; the iLife suite is now Snow Leopard-only

"It's a pity iLife '11 is Intel-only, but as PowerPC Macs were discontinued in 2006, it's probably time to let go."

Apple Logic Studio ★★★★★



Price: £417 **Reviewed:** Issue 213
Full review: www.techradar.com/625541
System reqs: Intel Mac; 1GB RAM; Mac OS X 10.5.7
⊕ Powerful music studio; great tools; good value
⊖ Some minor bugs in the initial release

Anime Studio Debut 6 ★★★★½

Price: £32 **Reviewed:** Issue 225
Full review: www.techradar.com/709610
System reqs: 256MB RAM; OS X 10.4 or later
⊕ Great new tools, including masking function
⊖ It's not the Mac's best-looking app

Mac FORMAT

All your Apple needs

Future Publishing Ltd,
30 Monmouth Street,
Bath BA1 2BW
Tel 01225 442 244
Fax 01225 732 295
macformat@futurenet.com
www.macformat.co.uk
www.twitter.com/MacFormat

EDITORIAL
EDITOR-IN-CHIEF **Graham Barlow**
graham.barlow@futurenet.com
DEPUTY EDITOR **Rob Mead-Green**
rob.mead-green@futurenet.com
REVIEWS EDITOR **Ian Osborne**
ian.osborne@futurenet.com
PRODUCTION EDITOR **Tim Hardwick**
tim.hardwick@futurenet.com
ART EDITOR **Alex Thomas**
alex.thomas@futurenet.com

EDITORIAL CONTRIBUTORS
Ian Betteridge, Laurence Cable, Rob Carney, Richard Cobbett, Andy Dyer, Jonny Evans, Craig Grannell, Ben Harvell, Rod Lawton, Susanne Ochs, Steve Paris, Nick Peers, Nik Rawlinson, Davina Rungasamy, Alan Stonebridge, Alex Thomas, Luis Villazon

ART CONTRIBUTORS
Apple, Mike Chipperfield @ MagicTorch, Future Photo Studio, (Dave Caudrey, Joby Sessions), Getty Images, iStockPhoto.com, Suzanne Rowles, Diana Walker / Contour by Getty Images

MANAGEMENT
PUBLISHER **Charlotte Morgan**
CREATIVE DIRECTOR **Robin Abbott**
EDITORIAL DIRECTOR **Jim Douglas**

ADVERTISING
ADVERTISING DIRECTOR **Malcolm Stoodley**
ADVERTISING SALES DIRECTOR **James Ranson**
SENIOR ADVERTISING MANAGER **Charlie Said**
charlie.said@futurenet.com
ACCOUNT MANAGER **Robert Williams**
robert.williams@futurenet.com
SENIOR SALES EXECUTIVE **Julian Tozer**
julian.tozer@futurenet.com
SALES EXECUTIVE **Lucie Gillespie**
lucie.gillespie@futurenet.com

MARKETING
CAMPAIGN MANAGER
Zoe Dando zoe.dando@futurenet.com

CIRCULATION
TRADE MARKETING MANAGER
Colin Hornby colin.hornby@futurenet.com
SUBSCRIPTIONS EXECUTIVE
Katy Holman katy.holman@futurenet.com

PRINT & PRODUCTION
PRODUCTION CO-ORDINATOR
Charlene Vaughan
charlene.vaughan@futurenet.com
PRODUCTION MANAGER
Rose Griffiths rose.griffiths@futurenet.com
HEAD OF PRODUCTION
Richard Mason richard.mason@futurenet.com

LICENSING
INTERNATIONAL LICENSING DIRECTOR
Tim Hudson tim.hudson@futurenet.com
Tel: + 44 (0)1225 442244
Fax: + 44 (0)1225 732275

FUTURE PUBLISHING LIMITED
GROUP PUBLISHING DIRECTOR **Nial Ferguson**
UK CHIEF EXECUTIVE **Mark Wood**
CHIEF EXECUTIVE **Stevie Spring**

SUBSCRIPTIONS
Phone: **0844 848 2852**
Web: **www.myfavouritemagazines.co.uk**
Email: **macformat@myfavouritemagazines.co.uk**

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Wednesday 12 October 2011

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Chief Executive Stevie Spring
Non-executive Chairman Peter Allen
Group Finance Director John Bowman
Tel +44 (0)207 042 4000 (London)
Tel +44 (0)1225 442 244 (Bath)

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Become an iMovie expert

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80 Lion features

That you might have overlooked

HOW TO…

- Convert video for iTunes
- Create a family tree
- Get fit with your Mac

Mac FORMAT
ON SALE
Wednesday 12 October 2011

ALL THIS AND MORE!

* Contents subject to change

GET INVOLVED

Mac User Groups

Find fellow Mac enthusiasts near you! Here's a list of the UK & Ireland MUGs

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davidjearly@mac.com
www.abdnmug.co.uk

[2] Bristol & Bath MUG
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info@bbmug.co.uk
www.bbmug.co.uk

[3] Berkshire & North Hampshire MUG
Reading area
i.j.burn@reading.ac.uk

[4] Bracknell Forest MUG
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office@bfmuguk.org
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[5] ClubMac Ireland
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secretary@clubmac.ie
www.clubmac.ie

[6] Cork University College
Cork
d.murphy@cs.ucc.ie
www.ucc.ie/mug

[7] Cumbria Mac Enthusiasts
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contact@macenthusiasts.co.uk
www.macenthusiasts.co.uk

[8] Deaf Mac Users
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nick@sturley.co.uk
http://tech.groups.yahoo.com/group/deaf-macs/

[9] Edinburgh MUG
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admin@edmug.org.uk
www.edmug.org.uk

[10] Exeter MUG
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[11] Glasgow MUG
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[13] London MUG
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www.lmug.org.uk

[14] MACUS (Manchester)
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davjaeger@macunlimited.net

[15] Midlands MUG
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www.mmug.org.uk

[16] North West Mac Group
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info@nwmug.co.uk
www.nwmug.co.uk

[17] Norwich MUG
Norwich
norwichmacusergroup@mac.com

[18] OxMUG
Oxford
www.oxmug.org

[19] South Essex MUG
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chairman@seal-apple.co.uk
www.seal-apple.co.uk

[20] South Wales MUG
Cardiff
swmug@applewiz.biz
www.swmug.org.uk

[21] Sneem MUG
Sneem
sean@smug.ie
www.smug.ie

[22] Stroud Mac User Group
Stroud
jmuy@aol.com

[23] Suffolk Mac User Group
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suffolkmacusergroup.co.uk

[24] Swindon MUG
Swindon
swindonmacusergroup@googlemail.com
http://swindonmacusergroup.googlepages.com

[25] Surrey MUG
Surrey
monigmagr@mac.com

[26] Three Counties MUG
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www.3cmug.co.uk

[27] Wessex MUGs
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enquiries@wamug.org.uk
www.wamug.org.uk

[28] Yorkshire MUG
Doncaster & other towns
ymug@mactalk.info
www.ymug.org

NEW STARTER

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Reader offers

Great deals on awesome software – exclusive to MacFormat magazine

iPhoto Library Manager

iPhoto enables you to create multiple libraries for your snaps, but keeping track of them isn't always easy. *iPhoto Library Manager* solves that problem with a simple front end with a number of powerful features – like the ability to move photos between albums without losing metadata. To get 25% off the normal asking price of $20 (£13) when placing an order, go to http://bit.ly/ndsGNV, select *iPhoto Library Manager* and type HARZZCKIHYYT83H into the Coupon Code box.

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Keeping tabs on CDs, DVD, games and books can be tricky without a cataloguing app, and that's where these four apps come in. They're easy to use and packed with features: find out more at www.bruji.com. Get 20% off *CDpedia, DVDpedia, Gamepedia* or *Bookpedia* – or collect the set. To get your discount, go to http://store3.esellerate.net/bruji/macformat and type MACFORMAT11 into the Coupon box on the Shopping Cart page.

Get 40% off File Juicer

File Juicer is a nifty utility that enables you to rescue all kinds of content from files – even if none of the apps on your Mac will recognise them. Drag and drop a file on to *File Juicer*'s window and you'll be able to extract images, movies, text and much more. You can even use it to recover the contents of corrupted files. And you can shave 40% off the asking price, by ordering *File Juicer* at http://echoone.com/shop and typing MACFORMAT10 into the Coupon/Promo Code box on the Your Shopping Cart page.

Get 30% off KeyCue

There are so many keyboard shortcuts for your Mac apps that it can be a struggle to remember them all. *KeyCue* gets around that by aggregating the currently available shortcuts into a floating window, which can be invoked by holding ⌘. All you have to do to use the shortcut you want is type its keys on the keyboard. To get 30% off *KeyCue*, go to http://bit.ly/nLSZ5c and add *KeyCue* to your Cart, then type MacFormatOct11 into the Coupon code box on Your Shopping Cart screen.

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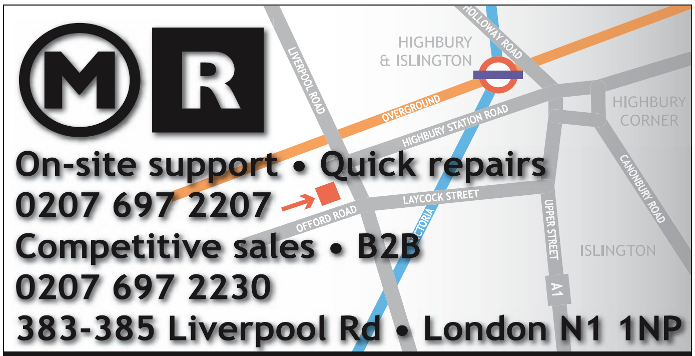

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>>FINANCE

Chronicle 3.5SE

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Chronicle 3.5SE teams a user-friendly front end with a range of powerful features, including handy reminders to pay your bills on time. You're even saving money by installing this app on your Mac – it's completely free.

Upgrade offer

If you like *Chronicle 3.5SE*, upgrade to version 4! It adds a bunch of new features and is Lion-ready. It's yours for the special price of £11.20. Visit https://sites.fastspring.com/littlefin/instant/chronicle (site requires latest version of Java).

>>UTILITIES

Web Confidential

A secure home for passwords

There are so many user IDs and passwords to remember these days that it can be hard to keep track of them. *Web Confidential 3.8* stores your details securely and is super-easy to use. To get your free copy (worth £13) go to www.web-confidential.com/macformat.html and request a registration key.

Upgrade offer

If you like *Web Confidential*, why not upgrade to version 4? It's Lion-ready and can be yours for just €11.95 (£10.43). Just use the weblink above.

>>UTILITIES

File Courier 1.5.2

Batch send files and folders

If you regularly send files and folders to friends and clients, then *File Courier* could be just what you need. It simplifies the whole process for you, right down to automated email sending. To licence your free copy to go http://bit.ly/qtwnTe.

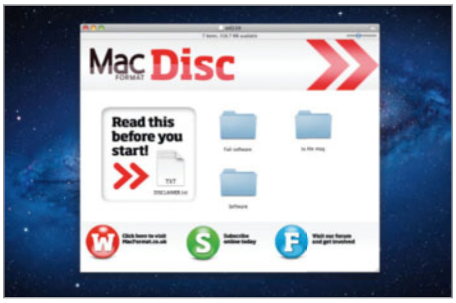
Upgrade offer

Get the standard version of its successor, *Deliver*, for just $8 (£4.91) with the coupon code ZSUDL6Z2386 at http://bit.ly/p6fxZQ. Or save 50% on the server version, *Deliver Express*, with code ZSDDX5ZPC5885.

>>READER OFFERS

Turn to page 126 for some great software offers and discounts exclusively available to MacFormat readers this month!

>>HOW TO / Install the programs on your disc


Mac FORMAT Disc
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TXT
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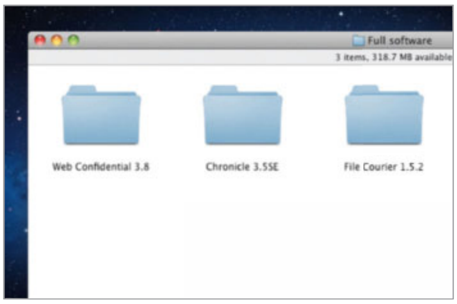
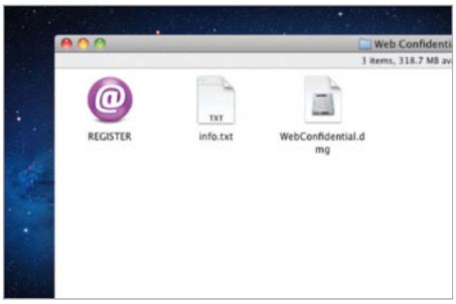
01 Loading the disc

Once you've inserted the disc in your Mac's optical drive and clicked on the disc icon to display its contents, you'll be greeted with this folder. Please make sure you read the disclaimer text file before you progress.


Full software
3 items, 318.7 MB available
Web Confidential 3.8
Chronicle 3.5SE
File Courier 1.5.2

02 The software

Navigate through the folders as you would those on your hard disk. Using the *Finder*, click on the names that correlate with the magazine sections and you'll be greeted with folders for each of the applications.


Web Confidenti
3 items, 318.7 MB av
REGISTER
TXT
info.txt
WebConfidential.dmg

03 Getting the apps

Each software folder will house at least three icons. The first is an info text file where you can read more about the product. Then comes a webloc site link and, finally, the app itself. Drag it to your desktop to open. ●

Mac FORMAT Disc

>> HAVING PROBLEMS?

For further help email **support@futurenet.co.uk** or call our support team on **01225 822743**. If you have comments please email to Simon Holland, New Media Editor, at **simon.holland@futurenet.com**

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Chronicle 3.5SE
File Courier 1.5.2
Web Confidential 3.8

IN THE MAG

Main feature

DaisyDisk 2.0.7.1
Disk Inventory X 1.0
IceClean 3.4.8
iPhoto Buddy 1.3.6
MacCleanse 2.0.7
Monolingual 1.4.5
OnyX 2.3.0
Singlemizer 2.0.6
TuneSpan 0.9.5.2 beta
Xslimmer 1.8.2

Q&A

BetterTouchTool 0.7178
Jitouch 2.42
MagicPrefs 2.3
MouseWizard 6.0.1

Reviews

Dragon Dictate 2.5
Hype 1.0.4
MacFamilyTree 6.1.3
Mamut Account Edge Plus 2011
Pixelmator 1.6.7

Mac FORMAT

ISSUE 239 / October 2011

MISSING YOUR DISC?

If your disc is missing, email support@futurenet.com or phone 01225 822743

OTHER RESOURCES

Shareware

BBEdit 10.0.1

Tutorials

Pester 1.1b13
Time Sink 1.2

Recommended software

Chronicle 4.0.3
File Courier 1.5.6
Web Confidential 4.0b2

Top freeware

Artworker 1.0
Click 2.0.0
iPhoto Buddy 1.3.6
iTweax 3.0.1
Kilometre 1.1.0
Roccat Browser 1.8
Scheduler 5.1.1
TransDock X 1.0.1
XRG 1.6.1
YoruFukurou 2.61

>> FINDING A SERIAL CODE

With the new interface comes a slight adjustment in your route to full product activation. The majority of this software will still require you to register online for activation. But now, you'll need to double-click the webloc '@' icon.

Future Technology coverdisc

This disc has been thoroughly scanned and tested at all stages of production, but - as with any new software - we still recommend that you run a virus checker before use. We also recommend that you have an up-to-date backup of your hard disk(s) before using this disc.

Future Publishing cannot accept responsibility for any disruption, damage and/or loss of data to your data or computer system that may occur while using this disc, or the programs and data on it. We advise that you consult your network administrator before installing software on a networked Mac.

Coverdisc problems

If you are having difficulties using the *MacFormat* disc interface or its content, please visit our reader support website at www.futurenet.co.uk/support. On this regularly updated website, you'll find solutions to numerous commonly reported problems. If, after reading these, you are still experiencing difficulties, then please email our reader support team (support@futurenet.co.uk) or phone 01225 442244 and ask for coverdisc support.

Please note that we can only provide technical support for the installation of software. Unfortunately, we cannot give in-depth help on the applications, or on your hardware or operating system. For software support-related issues, please contact the relevant product's developers. We regret that are unable to provide serial numbers over the phone.

Please also note that Future Publishing can only provide technical support for this disc for a period of six months after this magazine's on-sale date.

Interface

- Interface requires OS X.
- Some programs may require free registration over the internet or phone.
- Some software may not be available in all territories.
- Where relevant, program values quoted are prices when sold with original packaging and manuals.

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